EA REPORT DEC63A

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

COMMERCIAL ENVELOPE MFG. CO., INC.
TOWN OF BABYLON, SUFFOLK COUNTY
NEW YORK I.D. NO. 152103

Prepared for

Division of Solid and Hazardous Waste
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

Prepared by

EA Science and Technology
R.D. 2, Goshen Turnpike
Middletown, New York 10940

A Division of EA Engineering, Science, and Technology, Inc.

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1. EXECUTIVE SUMMARY

The Commercial Envelope Mfg. Co., Inc. (CEM) site (New York I.D. No. 152103 and EPA I.D. No. New) is an envelope manufacturing facility located on a 7-acre property approximately 0.5 mi east of the intersection of Commack Road and Grand Boulevard in the Town of Babylon, Suffolk County, New York (Figures 1-1 and 1-2, and Photos 1-16). The site is operated by Mr. Ira B. Kristel, President of CEM. The property is owned by the Town of Babylon's Industrial Development Agency, which financed the purchase of the property for CEM.

The company has operated from 1976 until the present, and reportedly generates chemical wastes such as solvents, ink, and glue. The major sources of industrial wastewater at the facility include a print-wash station, a photographic operation, and miscellaneous wash sinks. Frequent inspections and sampling by the Suffolk County Department of Health Services (SCDHS) identified three areas that contained elevated levels of solvents and heavy metals: (1) three leaching pools, (2) three ink waste storage tanks, and (3) an area adjacent to a trash compactor. It was learned during a search warrant investigation in 1985 that two leaching pools were connected to the photoroom and the printwash station by two underground pipes. An area near these leachpools, where purple-colored water was observed bubbling up through the ground, was also investigated at this time. It was established that the "bubbling-pool" was some sort of pit. At a later date, it was established that this pit was actually a third leaching pool which received wastes through a hole in a pipe which lead to the two other leach pools. This pool was found to contain approximately 1,500 gal of liquid and 31 55-gal drums of sludge. The three ink waste storage tanks, which were found to hold material enroute to the incinerator, were excavated.

Combined, the tanks were found to contain approximately 3,000 gal of liquid and 100 x 55 gal of sludge. The third area of concern, the area adjacent to a trash compactor, was filled with liquid and sludge which "oozed" out of the trash compactor as it compressed trash. A storm drain leach pool in the vicinity was found to be contaminated with solvents and metals. In 1985, following numerous court orders by SCDHS stipulating that the contaminated sites be cleaned up, two of the leaching pools were cleaned and filled with sand. The remaining pool, the ink waste storage tanks, and the storm drain near the trash compactor were cleaned in early 1986 after the company was convicted for unlawful discharge on 30 January 1986.

The preliminary HRS score for this site are as follows: Migration Score (S_M) = 37.20; Direct Contact Score (S_{DC}) = 0. The site does not pose a significant fire or explosion threat. Although two monitoring wells were installed and sampled recently for CEM at the site, they are reportedly both located downgradient of the subsurface contaminant source areas. In order to prepare a final HRS score for this site, analytical data regarding the quality of upgradient (ambient) ground water will be necessary. CEM is reportedly in the process of obtaining approval from the SCDHS for an upgradient monitoring well location. Collection and analysis of ground water from all three monitoring wells could then provide confirmation of a release of contaminants from the site to ground water (one purpose of a Phase II study). With such confirmation, the maximum attainable S_M is 37.20. The results of the monitoring well installations and future ground-water sample analyses performed for CEM should be considered and evaluated prior to developing an NYSDEC Phase II investigation. Therefore, at this time a Phase II study by NYSDEC is not recommended.

Site Coordinates:

Latitude: 40° 45' 45"
Longitude: 73° 18' 13"

COMMERCIAL ENVELOPE MFG. COMPANY, INC.

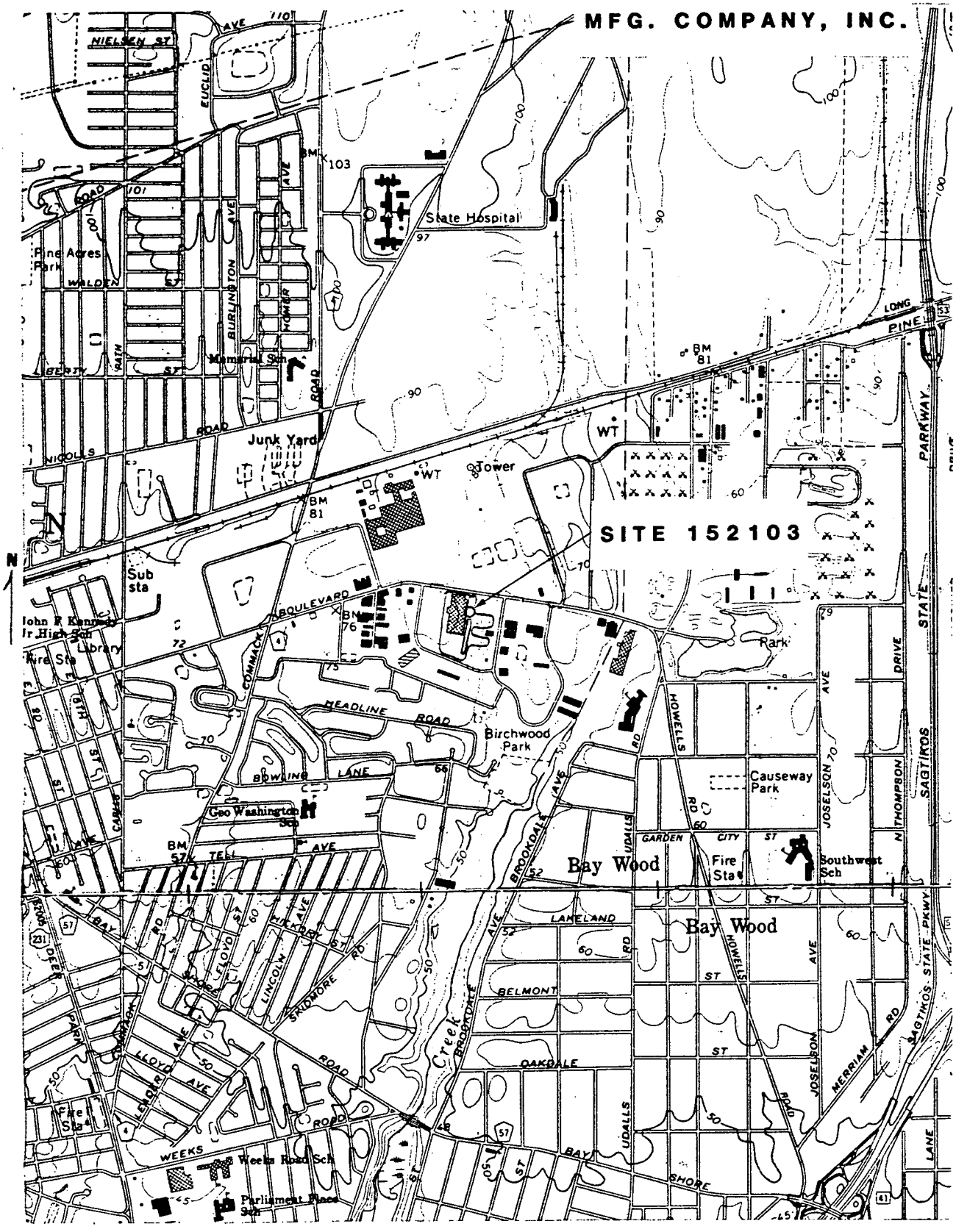
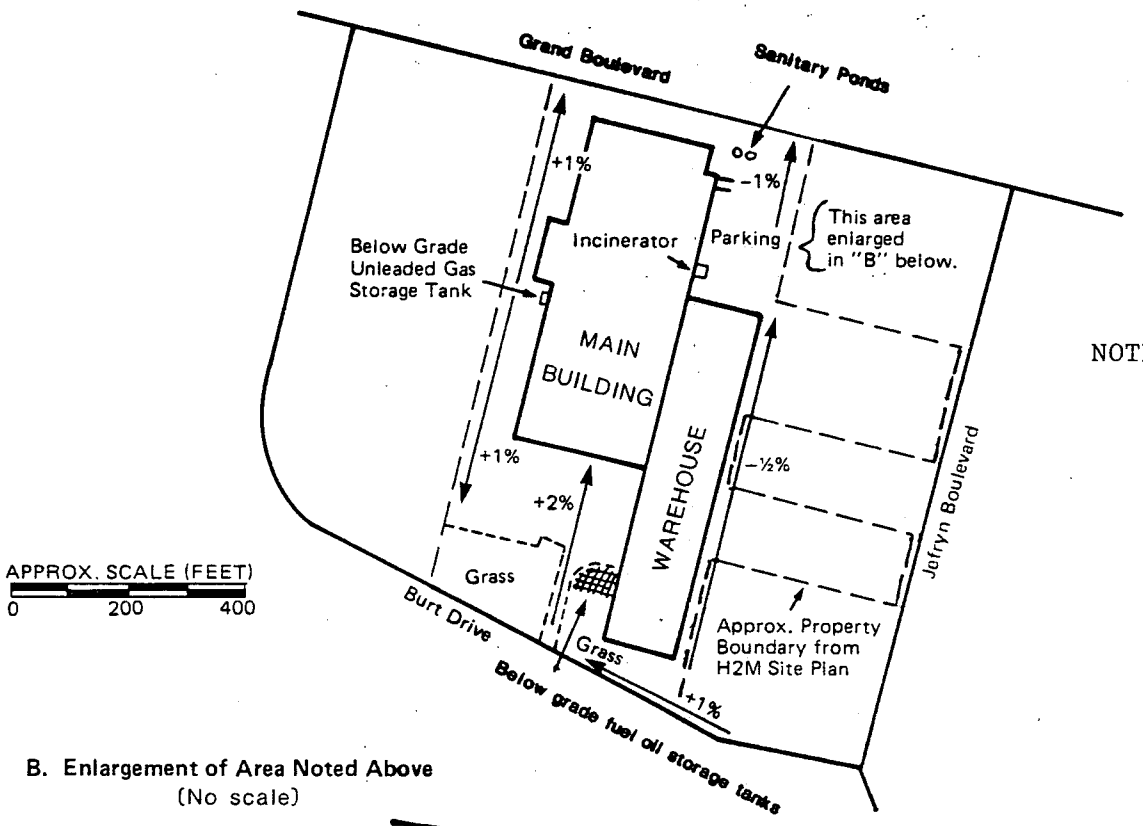


Figure 1-1. GREENLAWN & BAY SHORE WEST QUADS.

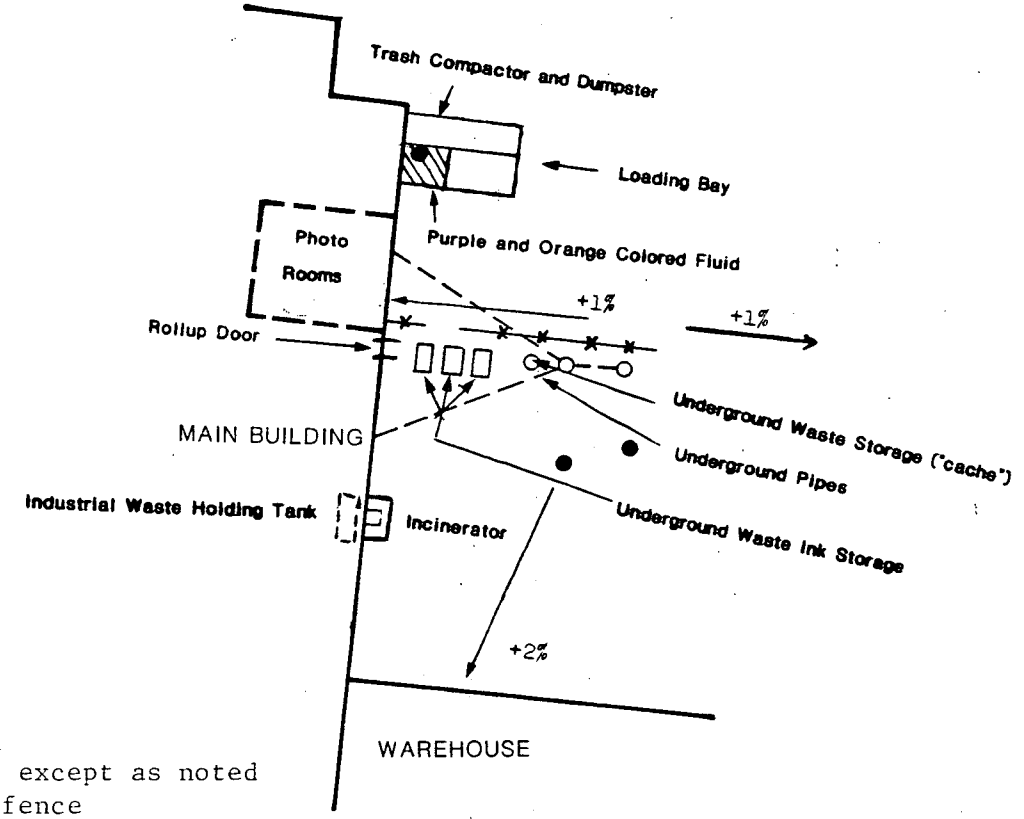
Scale 1:24,000

A.



NOTE: Base map modified from H2M site plan and SCDOP Spring 1980 Air Photo No. E640 . N4512

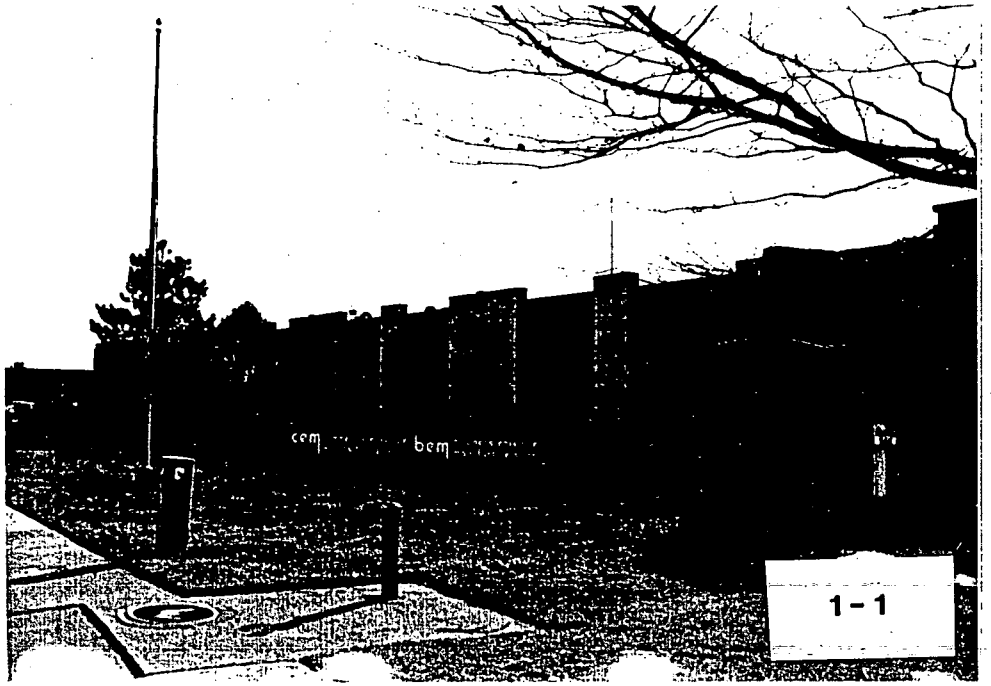
B. Enlargement of Area Noted Above
(No scale)



LEGEND:

● Storm drain
O Leach pool, except as noted
x-x Chain-link fence

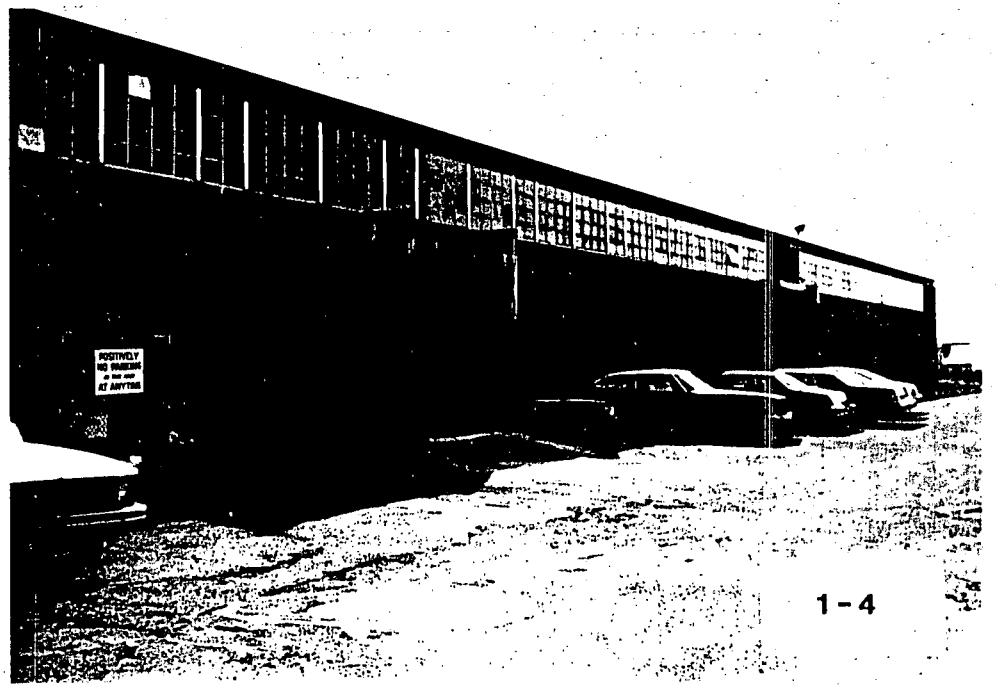
Figure 1-2. Site sketch. Commercial Envelope Manufacturing Co., Inc., 23 January 1986.



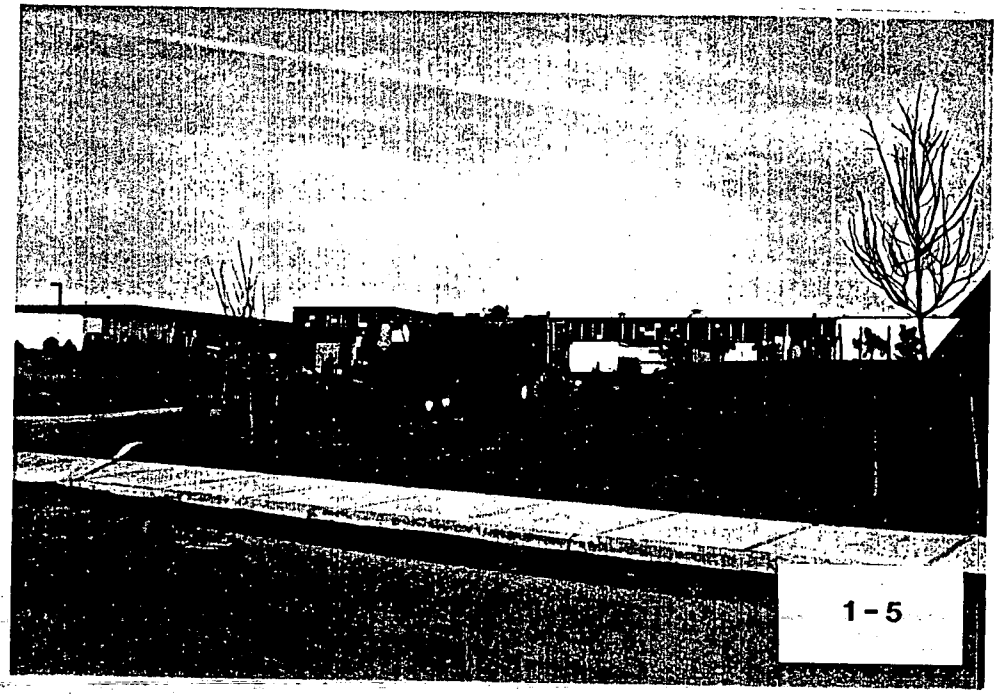
1-1

1-2

1-3



1-4



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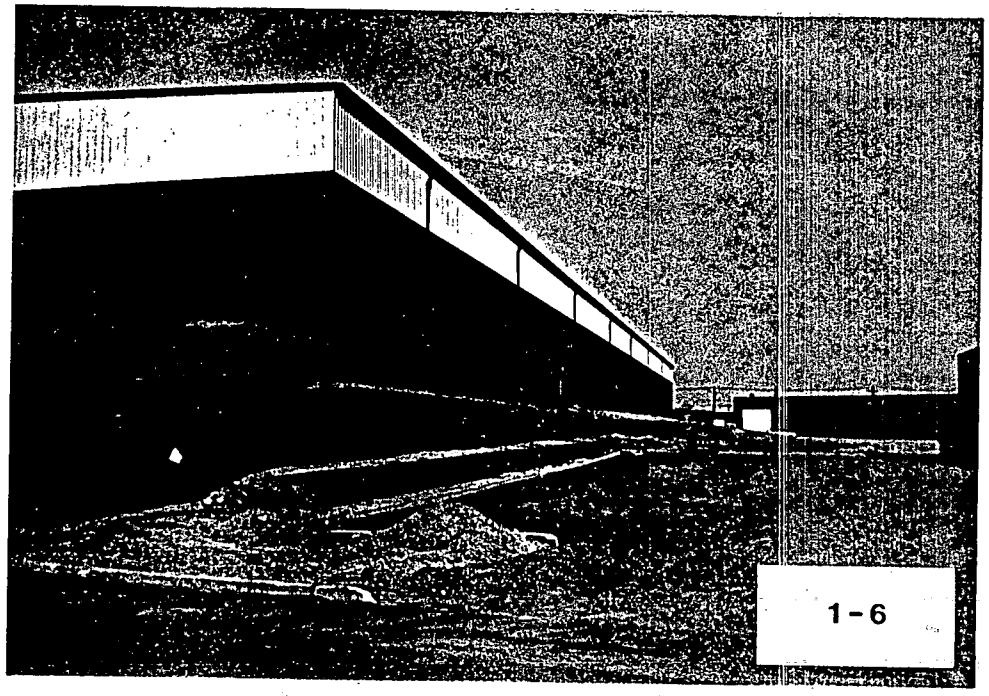

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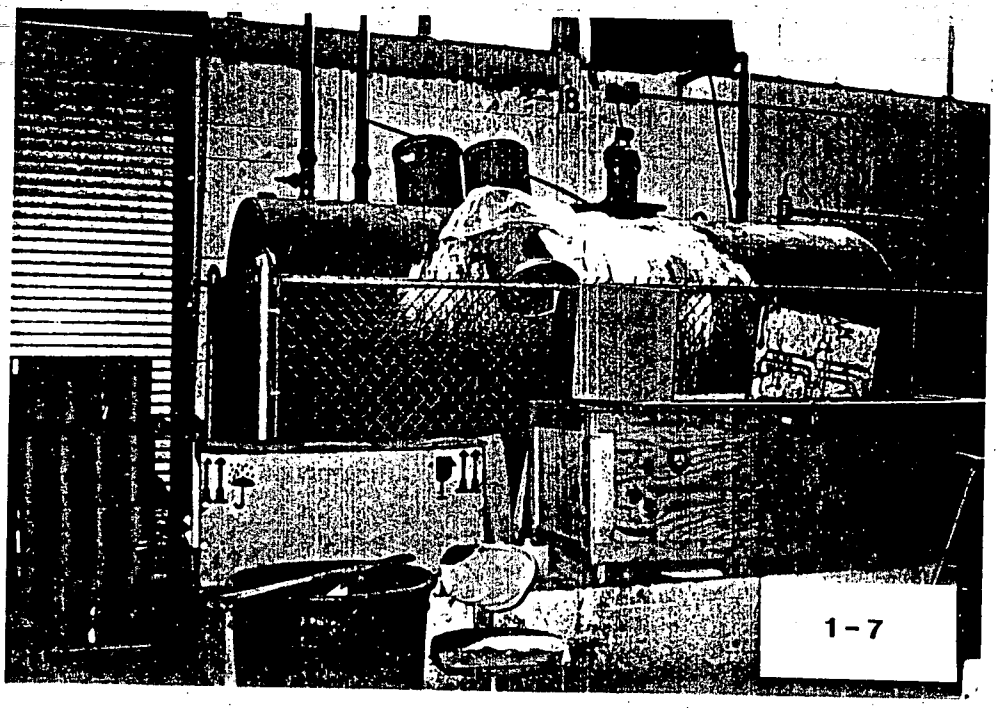

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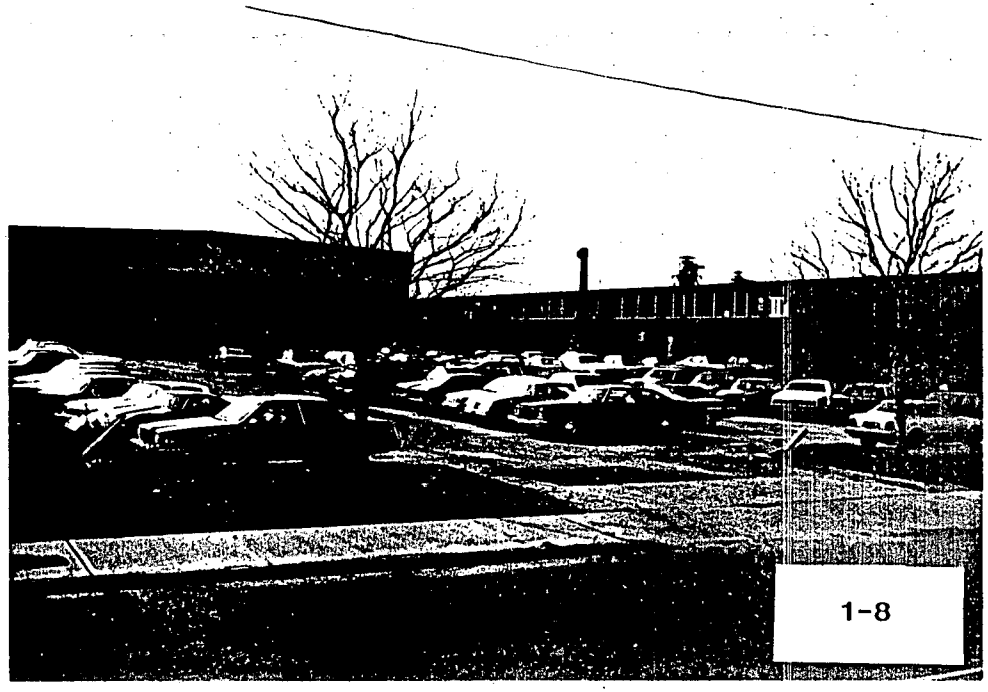

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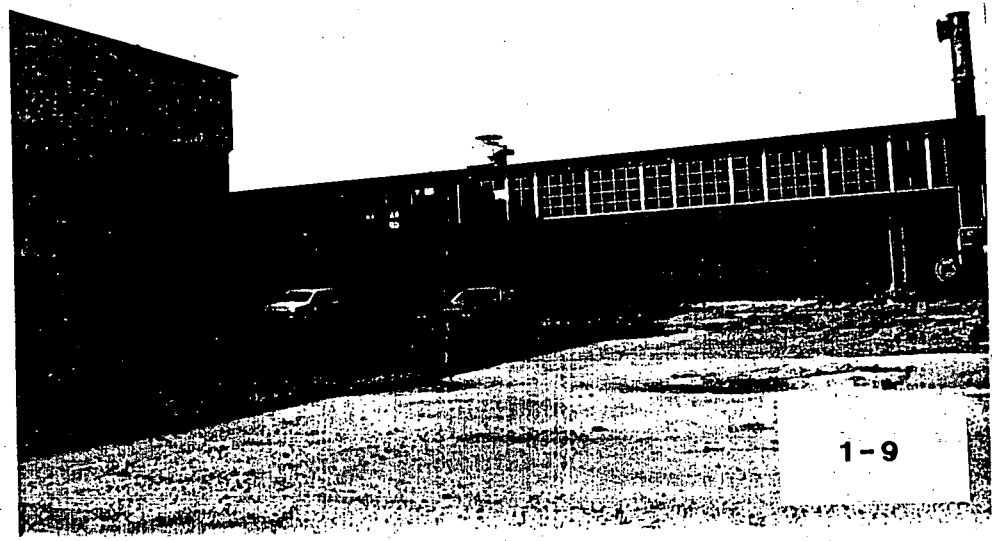

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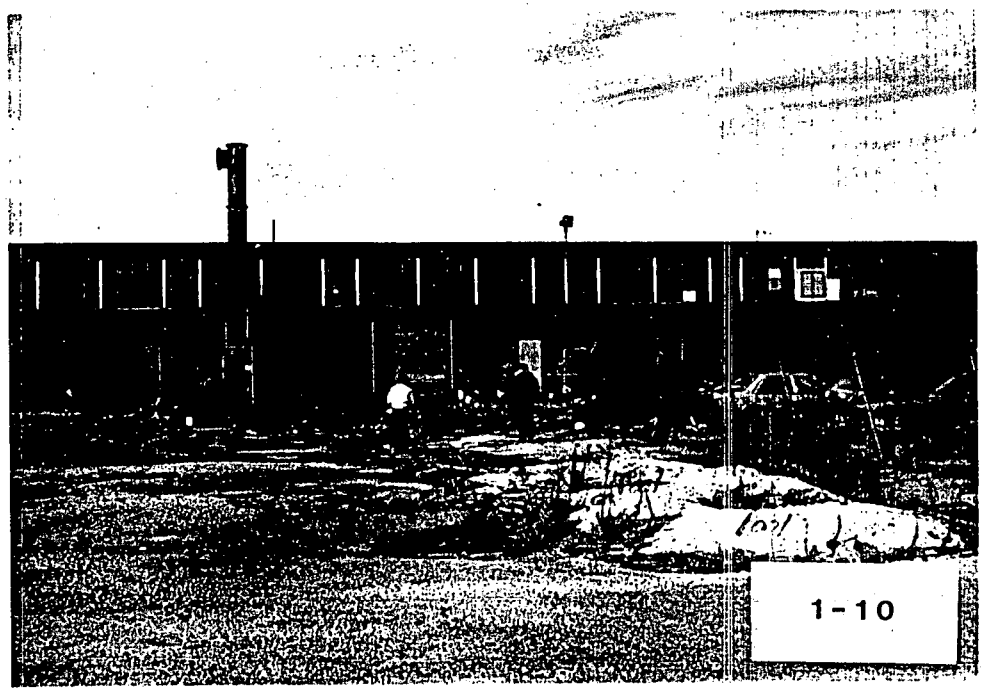

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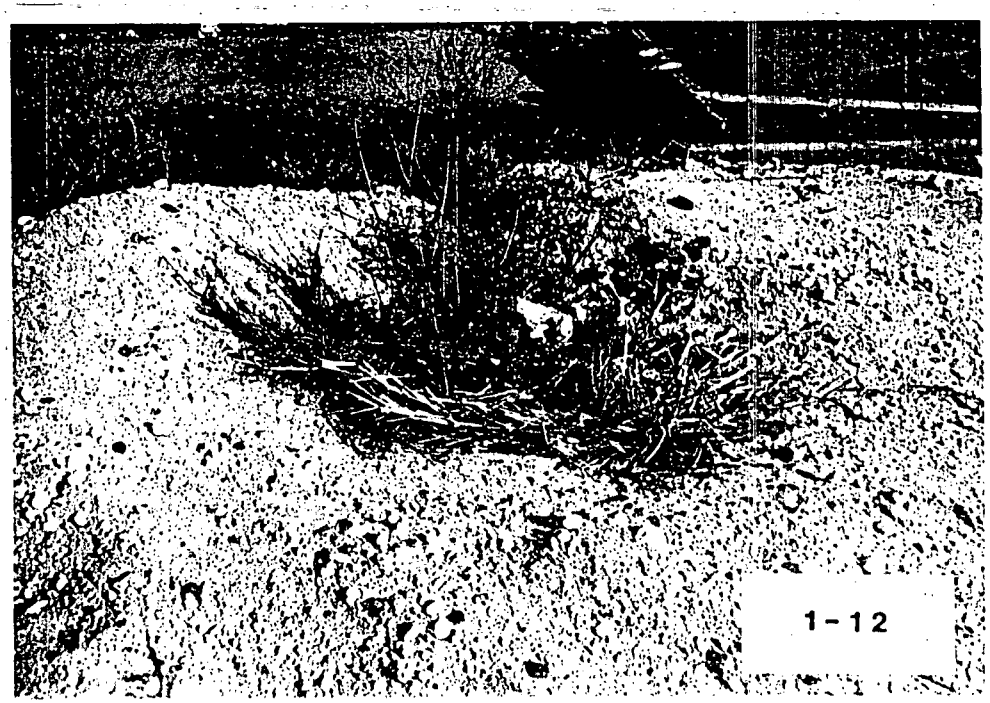

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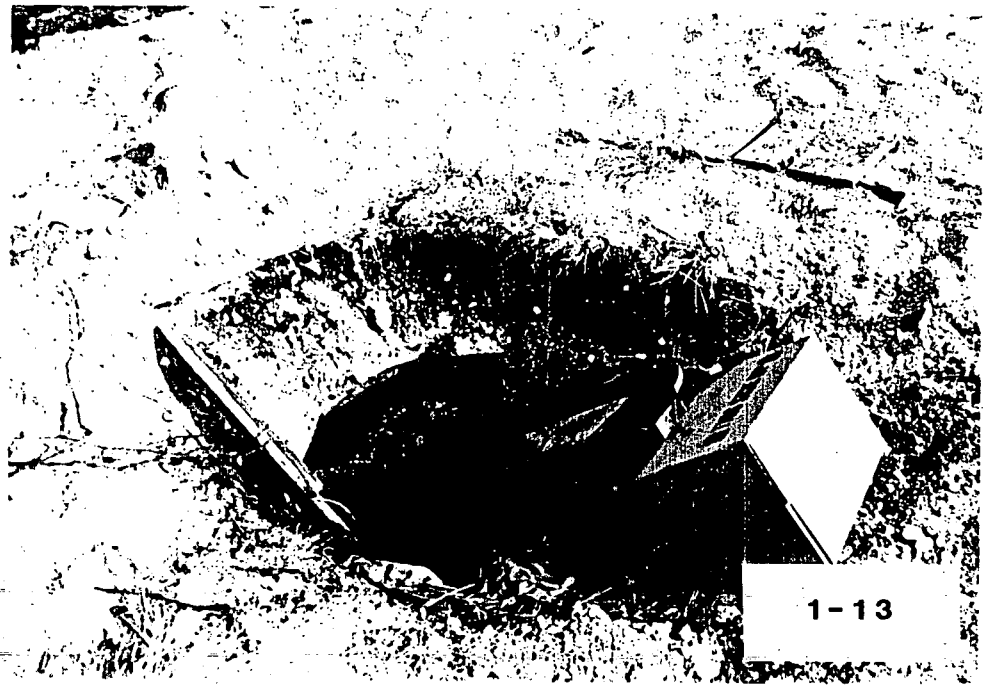

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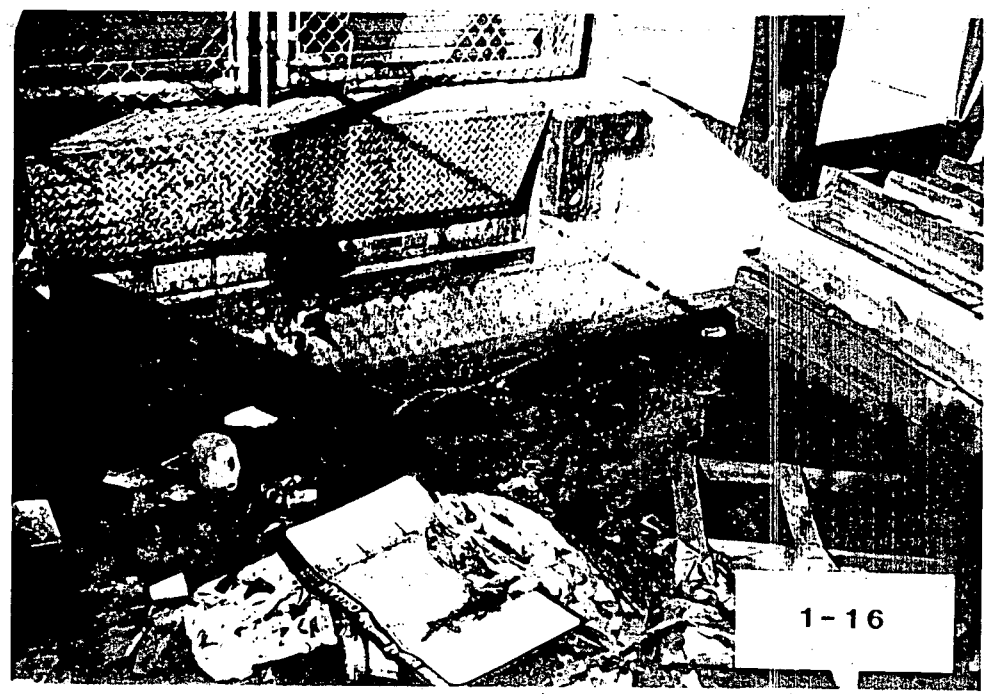
1-15



1-16

PHOTO LOG - COMMERCIAL ENVELOPE MFG. CO., INC.

Photo	Description
1-1	Southeasterly view across the front of Commercial Envelope Mfg. Co., Inc. (CEM) main building.
1-2	Southerly view across the northeast corner of the property including manhole covers of the two sanitary leach pools.
1-3	Southerly view along the northern portion of the west wall of CEM's main building.
1-4	Southerly view along the southern portion of the west wall of CEM's main building. (Note the gasoline dispensing pump near the left edge of the photo).
1-5	Northerly view toward the south side of CEM's main building (note that the grassed hill in the right center of the photo is the location of buried fuel oil storage tanks where a spill was being remediated and pumped into the tank truck in the center of this photo).
1-6	Northerly view along the eastern wall of CEM's warehouse.
1-7	View of the storage tank for CEM's incinerator. Tank is located inside main building adjacent to the incinerator.
1-8	Southwesterly view into the northeastern parking lot where the leach pools, underground storage tanks, incinerator, and dumpster/ compactor (center of photo's right edge) are located.
1-9 and 1-10	Westerly view of the northern portion of the eastern wall of CEM's main building (note the incinerator chimney near the center of the field of view). Also, note the dug up area (light colored sand and gravel) near the right side of Photo 1-10 which includes the two leach pools, the underground "cache" and the underground ink waste storage tanks (in order from the lower right area of the photo to the rollup door). Refer to Figure 1-2.
1-11	Detail of a portion of the area shown on Photos 1-9 and 1-10, including the incinerator (left portion of Photo 1-11), and the general vicinity surface area of the underground waste ink storage tanks (central portion of the photo in front of the rollup door).
1-12	Closeup view of the eastern leach pool shown on Photo 1-10 and Figure 1-2 (inset).
1-13	Closeup view of the underground "cache" located just west of the leach pool shown on Photo 1-13 and Figure 1-2 (inset).

PHOTO LOG (Cont.)

1-14 Air quality measurement of pit, later identified as third leachpool, being taken during EA's site reconnaissance.

1-15 Westerly view of the northeast corner of CEM's main building where a dumpster/compactor is located (right center of photo) in a loading bay. Fluids squeezed out of the compacted trash flow into the building-end of the loading bay where there is a storm drain.

1-16 Closeup view of the multicolored fluid observed in the building-end of the loading bay shown in the center of Photo 1-15.

2. PURPOSE

The Commercial Envelope Mfg. Co. Inc., site was listed in the New York State Registry of Inactive Hazardous Wastes Sites because of illegal hazardous waste disposal practices which occurred at the site.

The goal of the Phase I investigation of this site was to: (1) obtain available records on the site history from state, federal, county, and local agencies; (2) obtain information on site topography, geology, local surface water and ground-water use, previous contamination assessments, and local demographics; (3) interview site owners, operators, and other groups or individuals knowledgeable of site operations; (4) conduct a site inspection to observe current conditions; and (5) prepare a Phase I report. The Phase I report includes a preliminary Hazard Ranking Score (HRS) and an assessment of the available information.

3. SCOPE OF WORK

The Phase I investigation of the Commercial Envelope Mfg. Co., Inc. site involved a site inspection by EA Science and Technology, as well as record searches and interviews. The following agencies or individuals were contacted:

Contact	Information Received
Mr. Stephen J. Cohen (Site Rep) Attorney Gold and Wachtel Suite 1401 780 Third Avenue New York, New York 10017 (212) 223-3311	Site Interview
Mr. David Obrig Public Health Sanitarian Suffolk County Department of Health Services Bureau of Environmental Health 15 Horseblock Place Farmingville, New York 11738 (516) 451-4633	Site Interview
Mr. Anthony Candela, P.E. Senior Sanitary Engineer New York State Department of Environmental Conservation Division of Solid Waste SUNY Campus - Building 40 Stony Brook, New York 11794 (516) 751-7900	No site file
Mr. James H. Pim, P.E. Suffolk County Department of Health Services Hazardous Materials Management 15 Horseblock Place Farmingville, New York 11738 (516) 451-4634	Interview and site file

Contact	Information Received
Mr. Steve Carey/Mr. Dennis Moran Suffolk County Department of Health Services Bureau of Water Resources 225 Rabro Drive East Hauppauge, New York 11788 (516) 348-2893	Ground-water use; public water supplies and ground-water monitoring information
Mr. Dan Fricke Suffolk County Cooperative Extension Association 264 Griffing Avenue Riverhead, New York 11901 (516) 727-7850	Ground-water and surface water use for irrigation
Mr. William Schickler/Mr. Robert Bowen Suffolk County Water Authority Sunrise Highway and Pond Road Oakdale, New York 11769 (516) 589-5200	Public water supply and distribution
Mr. Doug Pica New York State Department of Environmental Conservation Division of Water SUNY Campus - Building 40 Stony Brook, New York 11794 (516) 751-7900	Ground-water use for irrigation
Mr. Allan S. Connell District Conservationist U.S. Department of Agriculture Soil Conservation Survey 127 East Main Street Riverhead, New York 11901	Ground-water use for irrigation
Mr. William Heyden Asst. Fire Inspector 200 East Sunrise Highway Lindenhurst, New York 11757 (516) 957-3069	Information regarding the threat of fire and/or explosion at the site
Mr. Kevin Walter, P.E. New York State Department of Environmental Conservation Division of Hazardous Waste Enforcement 50 Wolf Road Albany, New York 12233-0001 (518) 457-4346	No site file

Contact	Information Received
Mr. John Iannotti, P.E. New York State Department of Environmental Conservation Bureau of Remedial Action 50 Wolf Road Albany, New York 12233-0001 (518) 457-5637	No site file
Mr. Earl Barcomb, P.E. New York State Department of Environmental Conservation Bureau of Municipal Wastes Section of Landfill Operations Vatrano Road Albany, New York 12205 (518) 457-2051	No site file
Mr. Peter Skinner, P.E. New York State Attorney General's Office Room 221 Justice Building Albany, New York 12224 (518) 474-2432	No site file
Mr. Ron Tramontano/Mr. Charlie Hudson New York State Department of Health Bureau of Toxic Substances Assessment Nelson A. Rockefeller Empire State Plaza Corning Tower Building, Room 342 Albany, New York 12237 (518) 473-8427	No site file
Mr. James Covey, P.E. New York State Department of Health Nelson A. Rockefeller Empire State Plaza Corning Tower Building Albany, New York 12237 (518) 473-4637	Community Water Supply Atlas
Mr. Rocky Paggione, Atty./ Mr. Louis A. Evans, Atty. New York State Department of Environmental Conservation Division of Environmental Enforcement 202 Mamaroneck Avenue White Plains, New York 10601-5381 (914) 761-6660	No site file

Contact	Information Received
Mr. Marsden Chen, P.E. New York State Department of Environmental Conservation Bureau of Site Control 50 Wolf Road Albany, New York 12233-0001 (518) 457-0639	No site file
Mr. John W. Ozard Senior Wildlife Biologist New York State Department of Environmental Conservation Wildlife Resources Center Significant Habitat Unit Delmar, New York 12054 (518) 439-7486	Significant habitats
Mr. Perry Katz U.S. Environmental Protection Agency Region II Room 757 26 Federal Plaza New York, New York 10278 (212) 264-4595	No site file
Mr. Charles Guthrie Regional Fisheries Manager New York State Department of Environmental Conservation Region I SUNY Campus - Building 40 Stony Brook, New York 11794 (516) 751-7900	Surface water use for recreation
Mr. Charlie Banks Consulting Engineer (H_2M) Dix Hills Water District (516) 752-9060	Water supply information
Mr. Brando Superintendent Brentwood Water District (516) 273-4565	Water supply information

4. SITE ASSESSMENT - COMMERCIAL ENVELOPE MFG. CO., INC.

4.1 SITE HISTORY

The Commercial Envelope Mfg Co., Inc. (CEM) site is an envelope manufacturing operation located approximately 0.5 mi east of the intersection of Commack Road and the Long Island Railroad on Grand Boulevard in the Town of Deer Park, Suffolk County, New York (Figures 1-1 and 1-2). The property is owned by the Town of Babylon's Industrial Development Agency (IDA). This agency is listed on the deed as the current owner because CEM obtained a loan from the IDA to purchase the property. At present, CEM is repaying the loan. The site is operated by Mr. Ira B. Kristel, President of CEM (Appendixes 1.1-1 through 1.1-4). The envelope manufacturing firm, which has been at the site since approximately 1976, is also involved in printing and photographic operations. From the main building's construction in 1973 until 1976, the site was occupied by Alwin Seal, Inc., a company which produced such items as door frames and steel fencing (Appendixes 1.1-1 and 1.1-5).

The major sources of industrial wastewater at the facility include a printing-wash station, a photographic operation, and miscellaneous wash sinks, all of which are located in the main building (Appendix 1.1-6). A warehouse onsite, built in 1984, is used primarily for the bulk storage of paper with a small area used for job lot printing on "multilith" type machines (Appendix 1.1-7). CEM operations generate various hazardous wastes including solvents, glues, and ink. The company claimed that all such wastes were channeled into a 2,000-gal, above-ground storage tank located along the eastern wall inside the main

building. The wastewaters are then disposed of by high temperature incineration in a liquid waste disposal system located outside the building (Appendix 1.1-6). However, the Suffolk County Department of Health Services (SCDHS) has inspected the site and performed sampling many times since 1981, and has noted three areas where hazardous wastes have been disposed other than by incineration (Appendixes 1.1-3 and 1.1-8 through 1.1-12).

SCDHS personnel observed purple-colored liquid bubbling up through the ground on the east end of the building in October 1984. At that time SCDHS introduced dye in the hand-wash sink and the sump in the photo room. However, the dye did not appear in the inside waste holding tank and was not observed anywhere (Appendixes 1.1-3 and 1.1-11). On 17 June 1985, SCDHS site inspection identified a small pipe in the floor in the vicinity of CEM's "ink pot washer." A site representative comfirmed that this pipe lead beneath the floor, continued east of the building and discharged in the two eastern-most leach pools which had since been purged and backfilled with sand (Appendix 1.1-12). On 9 July 1985, a Special Investigation-Environmmental Crimes Unit from the District Attorney's office presented CEM with a search warrant to locate and dye-test pipes reportedly present in the CEM's main building and which discharged wastewater to leach pools located east of the building (Appendixes 1.1-13 and 1.1-14). Also present were representatives from the SCDHS. Dye-tests were performed along various portions of the pipes (previously plugged in some portions) originating in the "photo room" area (red dye) and the "ink pot wash machine" (green dye). Additionally, the previously purged and backfilled inline leach pool (east of the building) was reopened and excavated 6-7 ft to expose two discharge pipes. Red dye was observed to enter this leach pool through one of the discharge pipes; the green dye was not observed to enter

this leach pool. Because purple fluids had been observed to "bubble up" through the ground (about 6 ft west of the reopened leach pool), a break in the buried pipe line was suspected. Thus, an excavation was begun in that area, and uncovered a void (pit) of unknown total depth containing green- colored liquid and explosive vapors. A 4- to 6-in. diameter white pipe was observed to cross over the pit, and was discharging green-dyed liquid into the pit at a steady rate. A sample was collected from this pit when the explosive vapor concentrations lessened at the surface. Because of elevated explosive vapor concentrations and low percent oxygen measurements in the pit, the pit was not completely exposed; but rather the pit was covered with wood and the remainder of the excavation filled with sand to ground surface. Additionally, during this investigation, purple colored liquid was observed and sampled in the loading dock adjacent to the trash compactor. Analytical results of the sample collected from the pit indicate the presence of a variety of solvents (Appendix 1.1-14). In February 1986, it was determined that the pit was actually a third leach pool. Solid and liquid wastes were entering the pool through a hole in the PVC pipe which had entered the leaching pools east of this pool (Appendix 1.1-3).

The second problem area is a trash compactor situated in a loading dock on the northeast corner of the building. The area adjacent to the compactor has been observed to be filled with liquid and sludge that "oozes" out of the compactor as it compresses trash (Appendixes 1.1-3 and 1.1-14). The "ooze," which flows into a nearby storm drain pool, was found to be contaminated with solvents and metals. An overflow pool from the storm drain pool was identified but found by SCDHS to be clean (Appendix 1.1-3). The contaminated storm drain pool was

pumped out, pressure-washed, and backfilled with cement slurry (Appendixes 1.1-1 and 1.1-3). Later inspections found that the loading dock area adjacent to the compactor was again filled with contaminated liquids which were removed by a liscensed hauler (Appendix 1.1-3).

The third area of concern, located between the leaching pools and the building on the eastern side, is the three underground storage tanks intended to hold material going into the incinerator. Both the three tanks, estimated to hold 3,000 gal each, and the soil surrounding the tanks were found to be contaminated, primarily with metals, although some solvents were found in the ink waste tanks (Appendix 1.1-3).

SCDHS has also sampled two sanitary pools located on the northeast corner of CEM's main building. These pools were found to be clean (Appendix 1.1-3).

SCDHS has repeatedly initiated legal proceedings against CEM in an effort to get the three aforementioned areas cleaned up (Appendixes 1.1-8, 1.1-15, and 1.1-16). As part of one consent order, CEM applied for and received a permit to operate the high temperature incinerator (Appendixes 1.1-7, 1.1-17, and 1.1-18). In the application, it was stated that six wastewater constituents would be disposed of in this manner: lead oxide, silver salts, copper salts, iron salts, particulates, and hydrogen chloride. CEM has also been in violation for having both improper and unpermitted storage areas (Appendix 1.1-19). A SCDHS inspection of 23 September 1985 noted numerous 55-gal drums stored throughout the plant (Appendixes 1.1-20 and 1.1-21).

After several orders to clean up the pools, the two leaching pools directly connected to the "photo-room" and "ink-pot" wash machine were cleaned and filled with sand (Appendix 1.1-14). SCDHS also directed CEM to clean out the pit below the "bubbling-pool" (Appendix 1.1-22). Under a felony conviction in 1986, CEM scavenged and backfilled this pit which happened to be a third leach pool in-line with the pools that were connected to the photo room and ink-pot wash machine (Appendix 1.1-3). In addition, 3,000 gal of liquid and approximately 100 x 55 gal of sludge were removed from the three underground ink waste storage tanks. In April 1986, the three tanks and all influent pipes were filled with cement. At that time, it was also discovered that there was soil contamination along the west side of the excavation (Appendix 1.1-3). CEM has been ordered by SCDHS to remove this contamination.

In addition, it was noted during EA's site inspection, mid-January 1986, that cleaning up a recent fuel oil spill at the CEM facility was in progress. According to SCDHS, an oil distributor had mistakenly pumped 9,300 gal of fuel oil down an observation well on site (Appendix 1.1-23). CEM has since indicated that Slomins, the oil company, has to CEM's knowledge recovered the spilled oil, removed contaminated soil, and backfilled the area with sand (Appendix 1.1-1).

4.2 SITE TOPOGRAPHY

The Commercial Envelope Mfg. Co., Inc. site is located approximately 5 mi inland from Great South Bay on the southern side of Long Island at an elevation of approximately 75-80 ft above mean sea level. The regional slope of terrain is to the south (Figure 1-1). The CEM property itself is largely flat

(Figure 1-2). In the immediate vicinity of the leach pools and underground waste ink storage tank, the ground surface slopes slightly downward at about 1 percent toward the north-northwest.

The CEM facility is located in an industrial area and is adjacent to Grand Boulevard to the north and Burt Drive to the south (Appendix 1.2-1). The nearest commercial establishment is located approximately 125 ft northeast of the site. The nearest residence is approximately 1,500 ft to the south of the site. The nearest surface waterbody is Sampawans Creek and is located approximately 2,500 ft southeast of the site. However, there is no viable overland route to the surface water. The nearest well is a Suffolk County Water Authority well located approximately 0.5 mi to the northeast (Figure 1-2 and EA Site Inspection).

4.3 SITE HYDROGEOLOGY

The site is directly underlain by Pleistocene deposits of glacial outwash. This deposit is then in turn underlain by Cretaceous Age Matawan Group-Magothy Formation (undifferentiated), the Clay member and Lloyd Sand member of the Raritan Formation and finally by Precambrian Age gneiss and schist bedrock (Appendix 1.3-1). The Pleistocene deposits are approximately 180 ft in thickness (ground surface and Appendix 1.3-1) and largely comprised of stratified sand and gravel containing virtually no interstitial clay and silt. The Matawan Group-Magothy Formation (undifferentiated) locally appears to be approximately 700 ft in thickness (Appendix 1.3-1). The upper surface of this deposit is irregular because of considerable erosion during the Tertiary and Pleistocene times. Therefore, accurate prediction of formation thickness

between control points (boreholes) is difficult. This formation is generally composed of "beds and lenses of light-gray fine to coarse sand and silt, intercalated with thin to thick beds and lenses of light- to dark-gray clay, silt, and clayey/silty sand." Thin beds of lignite are commonly found in the clay and silt beds, while disseminated lignite and pyrite are common in the sand beds. Gravelly coarse sand is commonly present in the basal portion of the Magothy Formation, along with abundant interstitial clay and silt and lenses of clay, silt, and clayey/silty sand. The clay and silt beds are often apparently discontinuous lenses and not possible to correlate over significant distances as indicated on the geologic logs (Appendix 1.3-2) for seven nearby deep water supply wells: Wells S-46830 (663-ft total borehole depth) and S-31104 (658-ft total borehole depth) located 1 and 2 mi, respectively, east northeast of the site; Wells 67074 (830-ft total borehole depth) and S-18566T (653-ft total borehole depth) located about 1-1/4 and 3 mi, respectively, southeast of the site; Well S-34030 (563-ft total borehole depth) located about 2-1/2 mi west northwest of the site; Well S-23046 (451-ft total borehole depth) located about 3/4 mi southwest of the site; and Well S-59347 (515-ft total borehole depth) located about 1-3/4 mi south of the site.

The Clay Member of the Raritan Formation is estimated to be 175 ft in thickness (Appendix 1.3-1) and consists mostly of beds/lenses of light- to dark-gray clay, silt, and clayey/silty fine sand and occasional thin to thick sandy lenses of limited lateral extent. Thin beds and desseminated particles of lignite and pyrite are common in the clay portion of this unit. The Lloyd Sand Member of the Raritan Formation is estimated to be 350 ft in thickness (Appendix 1.3-1) and "consists mostly of beds and lenses of light- to

medium-gray sand and gravelly sand, commonly containing small to large amounts of interstitial clay and silt, that are intercalated with beds and lenses of light- to dark-gray clay, silt, and clayey/silty sand."

Water pumped from aquifers underlying Suffolk County is the sole source of water for public supply, agriculture, and industry (Appendix 1.3-3). The upper glacial and Magothy aquifers act as a single hydrological unit and are the only aquifers reportedly developed by wells for water supply within 3 mi of the site. Therefore, both the upper glacial and Magothy aquifers are designated as the aquifer of concern. The Lloyd aquifer, though moderately permeable (165 gpd/ft^2 estimated horizontal permeability at Brookhaven National Laboratory about 25 mi east of the site), has not been developed for water supply because more permeable aquifers are present at shallower depths, and water from the Lloyd commonly has undesireably high concentrations of iron. Additionally, the Lloyd Aquifer is overlain by the extensive, thick, low permeability (confining) Raritan Clay (Appendix 1.3-1). Therefore, the Lloyd Aquifer will not be considered further by this Phase I investigation.

The aquifers of Long Island are hydraulically interconnected and although beds and discontinuous layers of silt and clay within and between aquifers serve to confine water below them, they do not completely prevent the vertical movement of water through and around them. Soren (Appendix 1.3-1) presents data which reflect the high degree of hydraulic interconnection between the upper glacial and Magothy aquifers in the vicinity: (1) for wells completed in the upper glacial and Magothy aquifers in nearby Brentwood or Hauppauge, the head in these two aquifers decrease at a fairly uniform rate with increasing depth, and (2) water-level fluctuation in the same well groups were very similar. Soren

also reports that the estimated downward velocity of water through the Magothy aquifer in the vicinity of the ground-water divide in 1968 (along which the site is located) was 0.006 ft/day (approximately 2.2 ft/year).

Recharge to the upper glacial aquifer is derived entirely from precipitation. Recharge to the Magothy and Lloyd aquifers is derived entirely from the downward movement of water from each overlying aquifer (Appendix 1.3-4). In general, recharge to the lower aquifers occurs near the center of Long Island and discharge occurs along the edge of Long Island to the ocean and Long Island Sound. The average annual precipitation in the area is 46 inches, of which, 24 inches is estimated to infiltrate to the water table (Appendix 1.3-5). The remainder of the precipitation is returned to the atmosphere by evaporation and transpiration, except for a small amount of runoff to streams.

The upper glacial aquifer is the most permeable aquifer on Long Island with an estimated horizontal permeability of 1,000-1,500 gpd/ft^2 (Appendix 1.3-1). The site is located near the center of Long Island in an area of recharge for the underlying aquifers. In 1968, it was estimated in the region that water in the upper glacial aquifer was moving horizontally at rates less than 0.5 ft/day in areas distant from centers of pumping and to hundreds of ft/day near the screens of pumping wells (Appendix 1.3-1). The permeability of the underlying Magothy aquifer ranges widely depending upon the presence and amount of clay and silt. In 1968, it was estimated in the region that water in the Magothy aquifer was moving horizontally at rates less than 0.2 ft/day in areas distance from pumping, and to hundreds of ft/day near screens of pumping wells.

Based upon the March 1985 ground-water table contour map (SCDHS), the depth to ground water is estimated to be approximately 30 ft below ground surface, and the regional ground-water natural (unaffected by pumping) flow direction appears to be toward the south. Within 3 mi of the site, the upper glacial and Magothy aquifer of concern has been developed by 14 Suffolk County Water Authority well fields and one well each for Dix Hills Water District and Brentwood Water District (both are reportedly completed in the Magothy aquifer). The area within 3 mi of the site is served by three aforementioned water companies and a well for the Sam A. Lewison Start Center. Appendix 1.3-6 provides a list of the municipal wells located within 3 mi of the site.

4.4 SITE CONTAMINATION

Waste Types and Quantities

The envelope manufacturing company generated various hazardous chemicals including solvents, ink, and glue. Liquid and solids samples taken by the SCDHS from 1981 to 1985 from the leach pools, the ink waste storage tanks, and the areas surrounding the trash compactor, contained elevated levels of many hazardous chemicals including methylene chloride (180-2,100 ppb), 1,1,1-trichloroethane (4-150 ppb), cis-1,2-dichloroethylene (160 ppb), tetrachloroethylene (11-73 ppb) p-ethyltoluene (15-210 ppb), ethylbenzene (50-81 ppb), n-decane (40-190 ppb), toluene (93-970 ppb), xylene (55-500 ppb), 1,3,5-trimethylbenzene (12-190 ppb), decane (880 ppb), undecane (330 ppb), nonane (180 ppb), copper (0.08-865 mg/liter), iron (5-120 mg/liter), chromium (0.06-37 mg/liter), lead (0.4-166 mg/liter), and nickel (0.6-25 ppm). Sludge

samples taken near the trash compactor contained heavy metals including copper (140 mg/liter), iron (7,700 mg/liter), chromium (24 mg/liter), lead (58 mg/liter), and zinc (170 mg/liter) (Appendixes 1.1-3 and 1.1-9).

Ground Water

CEM's representative, Mr. Steven Cohen, Atty., has indicated that, in connection to a consent order entered into with SCDHS, a ground-water study at the site is being conducted by a consultant retained by CEM. Two monitoring wells (downgradient) have been installed onsite and both have been sampled. According to Mr. Cohen, the results of the sampling do not indicate whether there is any onsite contamination (analytical data was not supplied to EA). Mr. Cohen has also indicated that CEM has proposed to SCDHS the installation of an upgradient monitoring well (Appendix 1.1-1).

Surface Water

No data available.

Soil

A sample collected on 27 February 1986 from the west side of the the excavation of the ink waste storage tanks contained copper (865 ppm), total chromium (37 ppm), nickel (25 ppm), and lead (166 ppm) (Appendix 1.1-3).

Air

During EA's site inspection on 23 January 1986, air quality was measured using a photoionization detector (HNU). No measurements above background were found with the exception of the pit later identified as the third leach pool.

COMMERCIAL ENVELOPE MFG. CO., INC.
TOWN OF DEER PARK, SUFFOLK COUNTY

The Commercial Envelope Mfg. Co., Inc. (CEM) site is an envelope manufacturing facility located on a 7-acre property in the Town of Deer Park, Suffolk County, New York. Mr. Ira B. Kristel, president of CEM, operates the site. The Town of Babylon Industrial Development Agency, which financed the purchase of the property for CEM, is the current owner. CEM operated from 1976 until the present. The major sources of industrial wastewater at the facility include a print-wash station, a photographic operation, and miscellaneous wash sinks. Frequent inspections and sampling by the Suffolk County Department of Health Services (SCDHS) have identified three areas that contained elevated levels of solvents and heavy metals: (1) three leach pools, (2) three ink waste storage tanks, and (3) an area adjacent to a trash compactor. In 1985, SCDHS found that two leach pools were connected to the photoroom and the printwash station by underground pipes. It was later established that a third leach pool received wastes through a hole in a pipe which lead to the two other leach pools. This pool was found to contain approximately 1,500 gal of liquid and 31 55-gal drums of sludge. The three ink waste storage tanks, which held material enroute to the incinerator, were excavated and were found to contain approximately 3,000 gal of liquid and 100 x 55 gal of sludge. The area adjacent to a trash compactor was filled with liquid and sludge which "oozed" out of the trash compactor as it compressed trash. A storm drain leach pool in the vicinity was found to be contaminated with solvents and metals. In 1985, following numerous court orders by SCDHS stipulating that the contaminated sites be cleaned up, CEM had two of the leach pools cleaned and filled with sand. The remaining pool, the ink waste storage tanks, and the storm drain near the trash compactor were cleaned in early 1986.

Site Coordinates:

Latitude: 40° 45' 45"
Longitude: 73° 18' 13"

COMMERCIAL ENVELOPE MFG. COMPANY, INC.

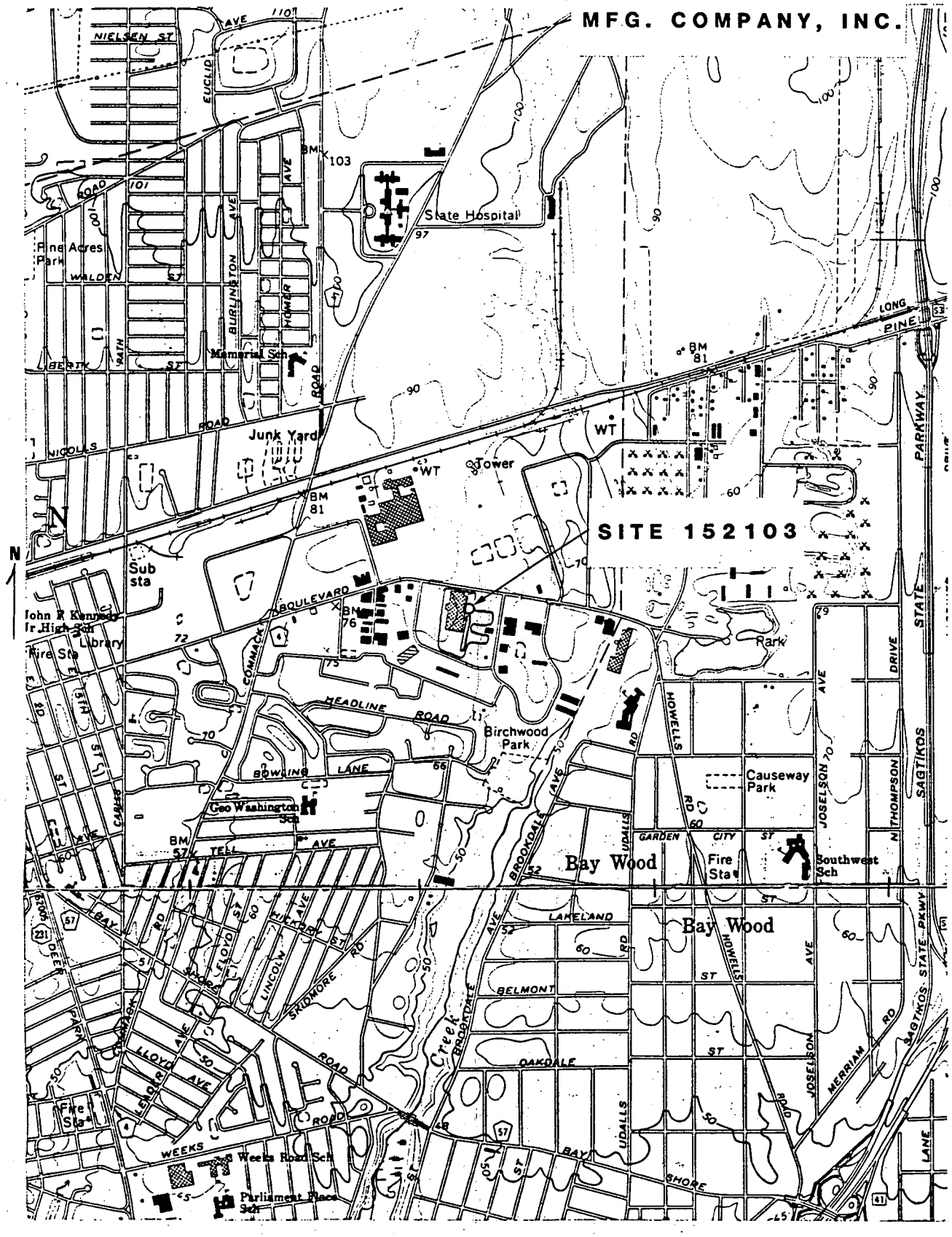


Figure 1-1. GREENLAWN & BAY SHORE WEST QUADS.

Scale 1:24,000

Facility name: Commercial Envelope Mfg. Co., Inc.

Location: Town of Babylon, Suffolk County

EPA Region: II

Person(s) in charge of the facility: Mr. Ira B. Kristel

Grand Boulevard

Deer Park, New York 11729

Name of Reviewer: EA Science and Technology Date: 4 November 1986

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

The site is an active envelope manufacturing plant with printing and photographic operations which has been located on Grand Boulevard since 1976. Three areas at the site have been associated with hazardous waste disposal. Three leaching pools received printing ink and photo wastes containing mixed heavy metal and solvent wastes. Solvent and lead contaminated wastes from a trash compactor flowed into a storm drain. Ink wastes were held in 3 below grade storage tanks.

Scores: $S_M = 37.20$ $S_{gw} = 64.36$ $S_{sw} = 0$ $S_a = 0$

$S_{FE} = N/A$

$S_{DC} = 0$

Maximum $S_M = 37.20$

FIGURE 1
HRS COVER SHEET

Ground Water Route Work Sheet						Max. Possible
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)	
1 Observed Release	(0) 45	1	0	45	3.1	45
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.						
2 Route Characteristics					3.2	
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6		
Net Precipitation	0 1 2 (3)	1	3	3		
Permeability of the Unsaturated Zone	0 1 2 (3)	1	3	3		
Physical State	0 1 2 (3)	1	3	3		
Total Route Characteristics Score			15	15		
3 Containment	0 1 2 (3)	1	3	3	3.3	
4 Waste Characteristics					3.4	
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18		
Hazardous Waste Quantity	0 1 (2) 3 4 5 6 7 8	1	2	8		
Total Waste Characteristics Score			20	26		20
5 Targets					3.5	
Ground Water Use	0 1 (2) 3	3	6	9		
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 30 32 (35) 40	1	35	40		
Total Targets Score			41	49		41
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			36,900	57,330		36,900
7 Divide line 6 by 57,330 and multiply by 100	S_{gw} = 64.36					64.36

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	
Distance to Nearest Surface Water	0 1 (2) 3	2	4	6	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			9	15	
3 Containment	(0) 1 2 3	1	0	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	(0) 3 6 9 12 15 18	1	0	18	
Hazardous Waste Quantity	(0) 1 2 3 4 5 6 7 8	1	0	8	
Total Waste Characteristics Score			0	26	
5 Targets					4.5
Surface Water Use	0 1 (2) 3	3	6	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			6	55	
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			0	64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{SW} =	0		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. Section
[1] Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line [1] is 0, the S_a = 0. Enter on line [5]. If line [1] is 45, then proceed to line [2].					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
[4] Multiply [1] x [2] x [3]				35.100	
[5] Divide line [4] by 35.100 and multiply by 100		S_a = 0			

FIGURE 9
AIR ROUTE WORK SHEET

	S	S^2
Groundwater Route Score (S_{gw})	64.36	4,142.21
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		4,142.21
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		64.36
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} \,/\, 1.73 = S_M =$		37.20

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Maximum S_M = 37.20

Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} = N/A			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Incident	(0) 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	(0) 1 2 3	1	0	3	8.2
3 Containment	(0) 15	1	0	15	8.3
4 Waste Characteristics Toxicity	(0) 1 2 3	5	0	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 (5)	4	20	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			20	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 0				

FIGURE 12
DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible, summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: Commercial Envelope Mfg. Co., Inc.

LOCATION: Town of Babylon, Suffolk County

DATE SCORED: 4 November 1986

PERSON SCORING: EA Science and Technology

PRIMARY SOURCES(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.)

Suffolk County Department of Health Services
EA Site Inspection, 23 January 1986

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

Observed release to ground water
Air route

COMMENTS OR QUALIFICATIONS:

Ambient ground-water quality data are unavailable. This route is scored based on confirmed contamination in onsite leach pools, storage tanks, and a storm drain pool.

No viable overland route for surface water exists. The local fire marshal does not consider the site to be an imminent fire or explosion threat.

Direct contact score on the basis that the leach pools, the storm drain, and the ink waste storage tanks, as well as the trash compactor area, have been adequately cleaned out and covered.

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Although monitoring wells (downgradient) have reportedly been installed at the site and samples collected and analyzed, there are no samples of ambient (upgradient) ground-water conditions.
References: 1 and 2. Assigned value = 0. Reference: 3.

Rationale for attributing the contaminants to the facility:

***

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

The Pleistocene Age Upper Glacial deposits and the Cretaceous Age Magothy Formation. References: 4, 5, 6, 7, and Section 4.3 of Phase I report.

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (waste table[s]) of the aquifer of concern:

30 ft. References: 8 and 16.

Depth from the ground surface to the lowest point of waste disposal/storage:

Depth of the leaching pool is 18 ft. Reference: 9. Depth to aquifer of concern is 12 ft. Assigned value = 3. Reference: 3.

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

24 inches. Reference: 7. Assigned value: 3. Reference: 3.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Sand and gravel. References: 4, 5, 6, 7, and Section 4.3 of Phase I report.

Permeability associated with soil type:

$>10^{-3}$ cm/sec. Assigned value = 3. Reference: 3.

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Liquid and sludge. References: 9 and 10. Assigned value = 3. Reference: 3.

***

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined leaching pools, storm drain near compactor, leaking ink waste storage tanks. Reference: 9.

Method with highest score:

All of the above. Assigned value = 3. Reference: 3.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Chloroform, copper, iron, chromium, cadmium, lead, nickel.
References: 9 and 10.

Compound with highest score:

Chloroform, copper, iron, chromium, cadmium, and lead all = 18.
Reference: 3.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

1,500 gal of liquid and 1,700 gal of sludge were removed from a leaching pool and 3,000 gal of liquids and 5,500 gal of sludge were removed from the ink waste storage tanks. Reference: 9.

Basis of estimating and/or computing waste quantity:

Based on the material removed, quantity = 11,700 gal.
Assigned value = 2. Reference: 3.

***

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking water with municipal water from alternate sources presently available. References: 12, 13, 14, and 15. Assigned value = 2.
Reference: 3.

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Suffolk County Water Authority well located on Industry Court.
References: 12 and 13.

Distance to above well or building:

Approximately 3,200 ft. Reference: 12. Assigned value = 3.
Reference: 3.

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Community Supplies:	Population:
Suffolk County Water Authority's Patchogue, Babylon, and Bayshore Water Districts	389,443
Brentwood Water District	26,000
Dix Hills Water District	29,415
Sam A. Lewison Start Center	40
	444,898

(Appendix A1.3-6 provides a list and description of wells.)
References: 12-15 and 26-28.

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Approximately 186 acres of land are used for agricultural purposes within a 3-mi radius of the site. However, irrigation wells on agricultural land in Suffolk County are not registered by any regulatory agency, so there are no lists or descriptions of the locations of these wells.

References: 17, 18, 19, 20, and 21.

Total population served by ground water within a 3-mile radius:

444,898. Assigned value = 5. Combined value = 35. Reference: 3.

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No data available. Reference: Chapter 3.
Assigned value = 0. Reference: 3.

Rationale for attributing the contaminants to the facility:

***

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Approximately 1 percent. Estimated with Suunto clinometer. Reference: 11, and Figure 1-2 of the Phase I Report.

Name/description of nearest downslope surface water:

Sampawams Creek. Reference: 16.

Average slope of terrain between facility and above-cited surface water body in percent:

0.9 percent slope. Estimated using a Suunto clinometer and from the topographic map. References: 11 and 16.

Is the facility located either totally or partially in surface water?

No. References: 11 and 16.

Is the facility completely surrounded by areas of higher elevation?

No. References: 11 and 16. Assigned value = 0. Reference: 3.

1-Year, 24-Hour Rainfall in Inches

2.5 inches. Assigned value = 2. Reference: 3.

Distance to Nearest Downslope Surface Water

Approximately 2,500 ft. Reference: 16. Assigned value = 2. Reference: 3.

Physical State of Waste

Liquid and sludge. References: 9 and 10. Assigned value = 3. Reference: 3.

***

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

All wastes were channeled to the leach pools and storm drains. There is no viable surface water route. Also, the area adjacent to the trash compactor is an old loading dock (enclosed basin). Reference: 11.

Method with highest score:

Intervening terrain precludes runoff from entering surface water. Assigned value = 0. Reference: 3.

4 WASTE CHARACTERISTICS

Containment is zero. Therefore, waste characteristics are not scored. Reference: 3.

Toxicity and Persistence

Compound(s) evaluated

Compound with highest score:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Basis of estimating and/or computing waste quantity:

***

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreational. Reference: 22. Assigned value = 2. Reference: 3.

Is there tidal influence?

No. Reference: 16.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None. Reference: 16.

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

None. Reference: 16.

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None. Reference: 23. Assigned value = 0. Reference: 3.

Population Served by Surface Water

Location(s) of water supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static waterbodies) downstream of the hazardous substance and population served by each intake:

None. References: 5, 14, 17, and 18.

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre).

None. The major source of irrigation water in Suffolk County is ground water from wells. Generally, surface water is not utilized for this purpose. Reference: 17 and 18.

Total population served:

Zero. References: 14, 17, and 18. Assigned value = 0. Reference: 3.

Name/description of nearest of above waterbodies:

Distance to above-cited intakes, measured in stream miles.

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

During EA's site inspection on 23 January 1986, air quality was measured using a photoionization detector (HNU). No measurements above background were found with the exception of the pit later identified as the third leach pool. EA has researched all agency files and has found no data indicating a release to air (Chapter 3). Assigned value = 0. Reference: 3.

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

***

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

***

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

FIRE AND EXPLOSION

Although the facility has violated various town and county fire codes, the local fire marshal has not certified that the site presents a significant fire or explosion threat (Reference: 24). There are no analytical data in any of the agency files examined (Chapter 3).

1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

***

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

***

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

***

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No observed incident on record. Reference: Chapter 3. Assigned value = 0. Reference: 3.

***

2 ACCESSIBILITY

Describe type of barrier(s):

Contaminated areas have been adequately cleaned and filled in. Reference: 9. Assigned value = 0. Reference: 3.

***

3 CONTAINMENT

Type of containment, if applicable:

The sources of contamination have been removed. Reference: 9. Assigned value = 0. Reference: 3.

***

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Containment = 0.

Compound with highest score:

***

5 TARGETS

Population Within 1-Mile Radius

15,197. Estimated as 40 percent of the population of North Bay Shore (13,746) and 5 percent of West Islip (1,451).
Reference: 25. Assigned value = 5. Reference: 3.

Distance to Critical Habitat (of Endangered Species)

None. Reference: 23. Assigned value = 0. Reference: 3.

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United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-12
July, 1981

Commercial Envelope Mfg. Co., Inc.

EPA

Potential Hazardous Waste Site

Preliminary Assessment

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Commercial Envelope Mfg. Co., Inc.	900 Grand Boulevard

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Deer Park	NY	11729	Suffolk		

09 COORDINATES LATITUDE	LONGITUDE
40° 45' 45"	73° 18' 13"

10 DIRECTIONS TO SITE (Starting from nearest public road)

Corner of Jefryn Boulevard and (900) Grand Boulevard, in Deer Park (Town of Babylon) New York.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Commercial Envelope Mfg. Company, Inc.	900 Grand Boulevard

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Deer Park	NY	11729	(516) 242-2500

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES ☐ NO DATE 1 23 86 (MONTH DAY YEAR)

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR ☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): EA Science and Technology

02 SITE STATUS (Check one)	03 YEARS OF OPERATION
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN	1976 (BEGINNING YEAR) present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Printing ink and photo wastes containing mixed heavy metal and solvent wastes discharged to leaching pools. Solvent and lead-contaminated wastes from a trash compactor flowed into a storm drain. Ink wastes were held within below grade tanks. Discharge to a discovered underground "cache" still active,*

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Potential ground-water contamination problem resulting from several years discharge of printing ink and photo waste containing mixed heavy metal and solvent wastes.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Rebecca Ligotino	EA Science and Technology	914) 692-6706

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
William Going		EA	914)692-6706	3 25 86 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

*source not yet identified.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER (Specify) _____
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS _____
- NO. OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene chloride	74-87-3	TK	180	ppb
SOL	1,1,2 Trichloroethane	79-00-5	TK	33	ppb
SOL	P-ethyltoluene		TK	210	ppb
SOL	Toluene	108-88-3	TK	970	ppb
SOL	Ethylbenzene	100-41-4	TK	52	ppb
SOL	Tetrachloroethylene	127-18-4	TK	11	ppb
SOL	Xylene	1330-20-7	TK	500	ppb
MES	Copper	7440-50-8	TK	0.08	mg/liter
MES	Iron	7439-89-6	TK	5.0	mg/liter
SOL	1,2,4 Trimethylbenzene	95-63-6	TK	430	ppb

V. FEEDSTOCKS (See Appendix for CAS Numbers) Unknown

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA site inspection, 23 January 1986.
Suffolk County Department of Health Services file.

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-13
July, 1981

Commercial Envelope Mfg. Co., Inc.

EPA

Potential Hazardous Waste Site

Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Commercial Envelope Mfg. Co., Inc.	900 Grand Boulevard				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Deer Park	NY	11729	Suffolk		

09 COORDINATES LATITUDE 40° 45' 45" | LONGITUDE 73° 18' 13"

10 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
1 / 23 / 86 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1976 (BEGINNING YEAR) | Present (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR EA Science & Tech. (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
James Shultz	Senior Geologist	EA	(914) 692-6706
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Rebecca Ligotino	Environmental Scientist	EA	(914) 692-6706
David Obrig	Public Health Sanitarian	SCDHS	(516) 451-4633
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mr. Stephen J. Cohen	Attorney	Gold and Wachtel	(212) 223-3311
		Suite 1401	( )
		780 Third Avenue	( )
		New York, NY 10017	( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	0900	Sunny, windy, (temperature low 30's)

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Rebecca Ligotino	EA Science and Technology	(914) 692-6706

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Rebecca Ligotino		EA	(914)692-6706	11 / 4 / 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS
- CUBIC YARDS
- NO. OF DRUMS: 234

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	144		
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene Chloride	74-87-3	TK	2,100	ppb
SOL	1,1,1 Trichloroethane	71-55-6	TK	150	ppb
SOL	p-Ethyltoluene		TK	210	ppb
SOL	n-Decane		TK	190	ppb
SOL	Toluene	108-88-3	TK	970	ppb
SOL	Xylene	1330-20-6	TK	500	ppb
SOL	1,3,5 Trimethylbenzene	108-67-8	TK	190	ppb
SOL	1,2,4 Trimethylbenzene	95-63-6	TK	430	ppb
SOL	Decane	124-18-5	TK	880	ppb
SOL	Undecane	1120-21-4	TK	330	ppb
SOL	Nonane	111-84-2	TK	180	ppb
MES	Copper	7440-50-8	TK	865	mg/liter
MES	Iron	7439-89-6	Open Dump-Spill	7,700	mg/liter
MES	Zinc	7440-66-6	Open Dump-Spill	170	mg/liter
MES	Lead	7439-92-1	TK	166	mg/liter
MES	Nickel	7440-02-0	TK	25	mg/liter

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection, 23 January 1986
Appendixes 1.1-3 and 1.1-9

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 444,898
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Ground water in the aquifer of concern is the water source for 14 SCWA well fields, 1 Dix Hills Water District well, and 1 Brentwood Water District well, and the Sam A. Lewison Start Center.

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No viable overland route to surface water.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No imminent threat.

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: Unknown (Acres)
02 ☒ OBSERVED (DATE: 2/27/86) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Soil contamination was discovered along the west side of the ink waste storage excavation and contained high concentrations of copper, chromium, nickel, and lead.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 444, 898
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Limited to the population served by ground water from the aquifer of concern within a 3-mile radius of the site.

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: New

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ K. DAMAGE TO FAUNA
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

None known.

01 ☐ L. CONTAMINATION OF FOOD CHAIN
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums)
02 ☒ OBSERVED (DATE: 1984-1986) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

The leaching pools were unlined and contained sludge and standing liquid. The contents of the pits were sampled and found to contain various solvents and metals.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None known.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
02 ☒ OBSERVED (DATE: 1984-1986) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Commercial Envelope was in violation over a period of several years for illegally discharging hazardous chemicals into three leach pools, a storm drain, and three ink waste storage tanks.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 444,898

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection 23 January 1986
Appendixes 1.1-1, 1.1-3, 1.1-4, 1.1-8, and 1.3-1 through 1.3-5

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES N/A				
☐ B. UIC				
☒ C. AIR				Operator's Permit for emissions from incinerator
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND	Unknown	
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP (loading dock area)	Unknown	
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE

1 (Acres)

07 COMMENTS

The site is a 1-acre parcel located behind the main building and is part of a 7-acre property.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS Leach pools and storage tanks are adequately covered; although there have been observed over flows to ground surface and the area adjacent to the trash compactor was uncovered and not secured, it has since been remediated.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Appendixes 1.1-3, 1.1-4, and 1.1-11
EA Site Inspection, 23 January 1986

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS Unknown

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. ~ 0.6 (mi)

B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 444,898

03 DISTANCE TO NEAREST DRINKING WATER WELL ~ 0.6 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
30 (ft)	S	12 (ft)	Unknown (gpd)	☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Within a 3-mile radius of the site there are 14 SWCA well fields, one Dix Hills Water District well, and 1 Brentwood Water District well. Also, a well at the Sam A. Lewison Start Center.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS	☐ YES ☒ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Sampawams Creek	☐	0.47 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 15,197 NO. OF PERSONS	B. 58,043 NO. OF PERSONS	C. 125,207 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.28 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE _____

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.02 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The site is located in an industrialized area which is surrounded by medium and high density residential areas.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one) Unknown

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
1,400 (ft)	Unknown (ft)	Unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
24 (in)	2.5-3 (in)	~1 %	N/A	0.9 %

09 FLOOD POTENTIAL N/A

SITE IS IN _____ YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. N/A (mi)	B. 1.3 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: None

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.02 (mi)	B. 0.28 (mi)	C. 0.56 (mi)	D. 0.56 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is located approximately 5 mi inland from Great South Bay at an elevation of approximately 75-80 ft above mean sea level. The CEM property itself is generally flat. The regional slope of terrain is to the south.

* U.S. Department of the Interior Geological Survey. 1967. Map of Flood-Prone Areas. 7.5-Minute Series. Greenlawn Quad.

Ozard, J. 1986. NYSDEC. Personal Communication. 6 March.

NYSDOH. 1982. New York State Atlas of Community Water System Sources.

SCWA. 1986. Actice Services Estimates.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection 23 January 1986. Sections 4.2 and 4.3.

USGS. 1979. 7.5-Minute Planimetric Series. Greenlawn Quad.

LIRBP. 1982. Quantification and Analysis of Land Use for Nassau and Suffolk Counties. LIRBP. 1985. Population Survey. 1985: Current Population Estimates for Nassau and Suffolk Counties. Hauppauge, New York.*

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. SAMPLES TAKEN None

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Slope	Estimated with Suunto Clinometer
Volatile organics	Photoionization detector (HNU)

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☒ AERIAL

02 IN CUSTODY OF EA Science and Technology
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS EA Science and Technology

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EA Site Inspection 23 January 1986.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
Town of Babylon IDA	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
200 E. Sunrise Highway	

05 CITY	06 STATE	07 ZIP CODE
Lindenhurst	NY	11757

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Appendixes 1.1-1 and 1.1-2.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Commercial Envelope Mfg. Co. Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
900 Grand Boulevard	

05 CITY	06 STATE	07 ZIP CODE
Deer Park	NY	11729

08 YEARS OF OPERATION	09 NAME OF OWNER
1976-present	Ira B. Kristel

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
Alwin Seal Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Unknown	

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Appendixes 1.1-1, 1.1-3, and 1.1-5

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. ON-SITE GENERATOR N/A

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ D. SPILLED MATERIAL REMOVED — 02 DATE 1985-1986 — 03 AGENCY SCDHS
04 DESCRIPTION
Contents of leach pools and buried waste ink tanks pumped out and disposed by liscensed contract hauler

01 ☒ E. CONTAMINATED SOIL REMOVED — 02 DATE 1986 — 03 AGENCY SCDHS
04 DESCRIPTION
Removal requested by Suffolk County Department of Health Services.

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II PAST RESPONSE ACTIVITIES *(Continued)* None

01 ☐ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ S. CAPPING/COVERING 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ V. BOTTOM SEALED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ W. GAS CONTROL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ X. FIRE CONTROL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ Z. AREA EVACUATED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

Appendix 1.1-3

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	New

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Suffolk County Department of Health Services has repeatedly initiated legal proceedings against Commercial Envelope. The consent orders have stipulated that all contaminated areas be cleaned, observation wells be installed, and a ground-water quality study be initiated. In 1986, the areas were cleaned and the monitoring wells were installed.

III. SOURCES OF INFORMATION *(Cite specific references, e g , state files, sample analysis, reports)*

Section 3.
Appendixes 1.1-3, 1.1-4, 1.1-8, 1.1-15, and 1.4-1

EPA FORM 2070-13 (7-81)

6. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

6.1 ADEQUACY OF EXISTING DATA

The available data are considered insufficient to prepare a final HRS score for the Commercial Envelope Mfg. Co., Inc. site. There is documentation of onsite hazardous waste disposal in underground tanks and leach pools which have reportedly been cleaned out and backfilled with clean sand. Although two monitoring wells were installed recently for CEM at the site, they are reportedly both located downgradient of the aforementioned subsurface contaminant source areas. Therefore, although ground-water samples have reportedly been collected and analyzed by CEM's consultant, there are no samples of ambient (upgradient) ground-water conditions.

6.2 RECOMMENDATIONS

In order to prepare a final HRS score for this site, analytical data regarding the quality of upgradient (ambient) ground water will be necessary. CEM is reportedly in the process of obtaining approval from the SCDHS for an upgradient monitoring well location. Collection and analysis of ground water from all three monitoring wells by CEM's consultant could then provide confirmation of a release of contaminants from the site to ground water (one purpose of a Phase II study). The results of the monitoring well installations and future ground-water sample analyses performed for CEM should be considered and evaluated prior to developing an NYSDEC Phase II investigation. Therefore, at this time a Phase II study by NYSDEC is not recommended.

Appendix 1.1-1

GOLD & WACHTEL

10 EAST 53RD STREET
NEW YORK, N.Y. 10022
(212) 223-3311

ROBERT GOLD *
WILLIAM B WACHTEL
ELLIOT SILVERMAN

LAURENCE P RABINOWITZ
STEVEN J COHEN
SHIRLEY FISHBEIN-HASS
JACLYN A FISCHLER
JOAN C PROWDA °
SCOTT J LESSER *

* ALSO MEMBER OF DISTRICT OF COLUMBIA BAR
° ALSO MEMBER OF MASSACHUSETTS BAR
* ALSO MEMBER OF NEW JERSEY BAR

HARRY H WACHTEL
OF COUNSEL

TELECOPIER
(212) 371-0320
TELEX
6973190

WASHINGTON OFFICE
SUITE 460
INTERNATIONAL SQUARE
1875 EYE STREET, N W
WASHINGTON, D C 20006
(202) 293-7100

November 12, 1986

Ms. Rebecca Ligotino
EA Science and Technology
R.D.2, Box 91
Goshen Turnpike
Middletown, New York 10940

Re: Commercial Envelope Manufacturing Co., Inc. ("CEM")
I.D. Number 152103

Dear Ms. Ligotino:

As you know, we are the attorneys for CEM. This letter shall serve as the formal revision to the Interview Acknowledgement Form ("IAF"), dated January 23, 1986, which must be included in your Phase I report to the New York State Department of Environmental Conservation.

Page One of IAF

CEM took possession of the property at 900 Grand Boulevard, Deer Park, New York in 1976, but the property is owned by the Town of Babylon. CEM is owned by the Kristel family.

The three below-grade ink waste holding tanks were properly abandoned pursuant to Article 12 of the Suffolk County Sanitary Code. The waste from the tanks was removed and the tanks were filled with concrete. A copy of the SCDHS report confirming the proper abandonment of the tanks, dated April 4, 1986, is enclosed herewith.

We are unaware of the basis for your statement in the last sentence on Page one of the IAF.

Page Two of IAF

There are no groundwater discharges at the site other than sanitary septic tank wastes at this time. A groundwater study is currently being conducted by the groundwater consultants we retained in connection with the consent order entered into between CEM and SCDHS. Two monitoring wells have been installed on site and the wells have been sampled. The results do not indicate whether there is any on-site contamination. Accordingly, we proposed to the SCDHS the installation of a third well at an upgradient location off-site. We are awaiting the response of the SCDHS to this proposal.

All of the drums stored on site have been placed in containment areas in accordance with Article 12 of the Suffolk County Sanitary Code. The SCDHS has inspected the storage/containment facility and has verified the Article 12 compliance by CEM.

The waste from the two leaching pools and the "cache" was pumped out, cleaned up and filled to grade with clean sand in accordance with the consent order.

With respect to the fuel oil spill referred to in the fourth paragraph, Slomins, the oil company, has to our knowledge recovered the spilled oil, removed the contaminated soil and backfilled the area with sand.

The incinerator on site is operating under a permit issued by the proper regulatory authorities.

Very truly yours,

Steven J. Cohen

SJC/hp
Encl.
cc: Mr. Ira B. Kristel
Mr. Nicholas Andrianas

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

7

NAME OF FACILITY		OWNER/ OFFICER		PAGE ___ OF ___1
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT		TEL
PLANT ADDRESS	900 Grand Blvd.	VILLAGE Deer Park	TOWN Bab. NY.	ZIP
MAILING ADDRESS				

DATE 4/4/86	TIME 1:00 PM	ORIG PERIODIC RE	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

(1) The three underground ink waste tanks located on the East side of Commercial Envelope Mfg Corp. have been property "abandoned" in accordance with SCSC Art. 12.

DAVID OBRIEN PHS.

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science and Technology, Inc
R D 2, Box 91 • Goshen Turnpike • Middletown, New York 10940
Telephone (914) 692-6706

1 April 1986

Mr. Steven J. Cohen
Attorney
Gold and Wachtel
Suite 1401
780 Third Avenue
New York, New York 10017

RE: Commercial Envelope, Inc.

Dear Mr. Cohen:

Thank you for taking the time to provide EA Science and Technology with information on the history of the above site. In order to compile an accurate report on this site, we request that you carefully read and sign the attached Interview Acknowledgement Form, which we expect to include in our Phase I report. This is an important verification document that is required by our contract with the New York State Department of Environmental Conservation.

If you wish to correct or update our interview summary, please do so in the space provided and affix your signature and date to the attached form following your revisions. If you need additional space, enclose your own signed and dated attachments.

Please return the signed acknowledgement form within 10 days in the stamped, self-addressed envelope provided.

If you have any questions, please do not hesitate to call. Thank you for your prompt reply.

Sincerely,

Rebecca Ligotino

Rebecca Ligotino

RL/rlc
Attachments

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Commercial Envelope, Inc.

I.D. Number: 152103

Person Contacted: Mr. Steven J. Cohen

Date: 23 January 1986

Title: Attorney

Affiliation: Gold and Wachtel

Phone No.: (212) 223-3311

Address: Suite 1401
780 Third Avenue
New York, New York 10017

Persons Making Contact:
EA Representatives:

Shultz/Ligotino

Type of Contact: In Person

Interview Summary:

Commercial Envelope Mfg. Co., Inc. purchased the property at 900 Grand Boulevard, Deer Park, New York in 1976. The company, owned by Steven Crystal, manufactures envelopes and uses several potentially hazardous substances including solvents, glues, and ink. All liquid wastes are channeled through a 2,000-gallon holding tank inside the plant, and then incinerated on site. The property has been under close scrutiny by the Suffolk County Department of Health Services (SCDHS), and a dye test performed indicated that the system was not fully connected as the dye eventually migrated to the leaching pools. As a result, the SCDHS issued a Consent Order to clean up the site, install three monitoring wells, and bring the industrial waste holding tank and incinerator on site into compliance with applicable state regulations.

There are four problem areas that the SCDHS has identified on site. There are two leaching pools east of the building that are connected via two pipes to the "pot-wash" area and "photo-rooms" inside the building. The connection between the leaching pools and the "photo-room" was apparently plugged at one time, but was found to be leaking during a SCDHS inspection. These leaching pools were scavenged and filled in with sand. The second problem area is a trash compactor situated on a loading dock on the northeast corner of the building. The compactor compresses trash, and the resulting "ooze" flows into the loading dock storm drain. The SCDHS believes this "ooze" has been solvent and lead contaminated. The storm drain was scavenged and cleaned up. The sludge was pumped out, and then the area was pressure-washed several times. The pool was filled with a cement slurry. The consulting firm of H2M assisted in this clean up. A second overflow pool to the storm drain was identified, but found by SCDHS to be clean. A third area of concern is the three below grade ink waste holding tanks, intended to hold material going into the incinerator. These three tanks are assumed by SCDHS to be steel with a cement collar and a manhole cover. The tanks probably hold 3,000+ gallons each, and are interconnected. The waste in these tanks was not removed, however, the tanks have been backfilled in by Commercial Envelope with sand. When they were originally pumped out, the liquid was discharged into a field forming a "purple lake."

The fourth potential problem was identified by the SCDHS, during a July 1985 inspection, when they observed liquid leaking from a broken pipe into a 6- to 8-ft deep hole. A sample to be analyzed for metals and organics was collected by SCDHS and the hole was closed. However, during EA's site reconnaissance, a small diameter hole to the surface was observed. The pipe suspected to be leaking to this area is from the "pot wash" area and has been cut and cemented in.

There are numerous 55-gallon drums stored on site and throughout the plant. These drums hold glues and ink, and will eventually be poured into a 2,000-gallon holding tank inside the plant. Wastes are discharged from the tank to the incinerator and burned. The SCDHS has ordered that the drums be stored in two areas rather than throughout the plant.

The bathrooms on the site are connected to sanitary pools, and SCDHS inspection found the pools to be clean.

Mr. Cohen did not know if the underground ink waste storage tanks, the underground waste storage "cache", and the two leach pools located immediately east of the "cache" were installed by the previous occupant or by Commercial Envelope. However, the storm drain and associated leach pools were apparently installed prior to Commercial Envelope's purchase of the property in 1976. There are two 10,000-gallon, underground storage tanks on site; one containing gasoline and the other fuel oil. In mid-January 1986, there was a fuel oil spill when an oil distributor pumped too much fuel into one of the tanks.

Commercial Envelope Mfg. Co., Inc. has filled in most of the problem areas with sand in efforts to clean up the site. The three monitoring wells are proposed by Commercial Envelope to be installed to first water. There has been no testing of the incinerator smokestack as air monitoring was not ordered by the SCDHS.

The previous occupant at the facility was Alvin Seal, Inc., whose product line included items such as door frames and steel fencing. It is unknown if the manufacture or assembly of products occurred on site.

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Interview Acknowledgement Form
Page 3

Revisions (please write in corrections to above transcript):

_____

_____

_____

_____

_____

Signature: _____ Date: _____

_____

Appendix 1.1-2

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Commercial Envelope Mfg. Co. Inc.
( ) _____, ( ) _____
( ) Author

Person Contacted: Mrs. Edmond Madoch **Date:** 11-25-86

Phone Number: 516 957 3005 **Title:** Town Assessor

Affiliation: Town of Babylon **Type of Contact:** Phone

Address: 200 East Sunrise Hwy. Lindenhurst NY 11757 **Person Making Contact:** Gonij

Communications Summary: I asked if the Town of Babylon owned the property at 900 Grand Blvd. in Deer Park --- she said that the Town Industrial Development Agency was listed on the deed as the current owner, although Commercial Envelope had obtained loans from IDA so that they could purchase the property and were in fact in the process of doing so --- Commercial Envelope is repaying the loan from IDA that is buying the property

I also called spoke to the Environmental Dept at the Town office bldg. and indicated that EA would list Town of Babylon (IDA) as owner of the site in our Phase I report to NYSDEC. I left my number so they could call back if they wanted more information.

(see over for additional space)

Signature: William Gonij

Appendix 1.1-3

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Commercial Envelope, Inc.

I.D. Number: 152103

Person Contacted: Mr. Dave Obrig

Date: 23 January 1986

Title: Public Health Sanitarian

Affiliation: Suffolk County Department of Health Services

Phone No.: (516) 451-4633

Address: 15 Horseblock Road
Farmingville, New York 11738

Persons Making Contact:
EA Representatives:

Type of Contact: In Person

Shultz/Ligotino

Interview Summary:

Commercial Envelope Mfg. Co., Inc. purchased the property at 900 Grand Boulevard, Deer Park, New York in 1976. The company, owned by Steven Crystal, manufactures envelopes and uses several potentially hazardous substances including solvents, glues, and ink. All liquid wastes are channeled through a 2,000-gallon holding tank inside the plant, and then incinerated on site. The property has been under close scrutiny by the Suffolk County Department of Health Services (SCDHS), and a dye test performed indicated that the system was not fully connected as the dye eventually migrated to the leaching pools. As a result, the SCDHS issued a Consent Order to clean up the site, install three monitoring wells, and bring the industrial waste holding tank and incinerator on site into compliance with applicable state regulations.

There are four problem areas that the SCDHS has identified on site. There are two leaching pools east of the building that are connected via two pipes to the "pot-wash" area and "photo-rooms" inside the building. The connection between the leaching pools and the "photo-room" was apparently plugged at one time, but was found to be leaking during a SCDHS inspection. These leaching pools were scavenged and filled in with sand. The second problem area is a trash compactor situated on a loading dock on the northeast corner of the building. The compactor compresses trash, and the resulting "ooze" flows into the loading dock storm drain. The SCDHS believes this "ooze" has been solvent and lead contaminated. The storm drain was scavenged and cleaned up. The sludge was pumped out, and then the area was pressure-washed several times. The pool was filled with a cement slurry. The consulting firm of H2M assisted in this clean up. A second overflow pool to the storm drain was identified, but found by SCDHS to be clean. A third area of concern is the three below grade ink waste holding tanks, intended to hold material going into the incinerator. These three tanks are assumed by SCDHS to be steel with a cement collar and a manhole cover. The tanks probably hold 3,000+ gallons each, and are interconnected. The waste in these tanks was not removed, however, the tanks have been backfilled in by Commercial Envelope with sand. When they were originally pumped out, the liquid was discharged into a field forming a "purple lake."

The fourth potential problem was identified by the SCDHS, during a July 1985 inspection, when they observed liquid leaking from a broken pipe into a 6- to 8-ft deep hole. A sample to be analyzed for metals and organics was collected by SCDHS and the hole was closed. However, during EA's site reconnaissance, a small diameter hole to the surface was observed. The pipe suspected to be leaking to this area is from the "pot wash" area and has been cut and cemented in.

There are numerous 55-gallon drums stored on site and throughout the plant. These drums hold glues and ink, and will eventually be poured into a 2,000-gallon holding tank inside the plant. Wastes are discharged from the tank to the incinerator and burned. The SCDHS has ordered that the drums be stored in two areas rather than throughout the plant.

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Mr. Cohen did not know if the underground ink waste storage tanks, the underground waste storage "cache", and the two leach pools located immediately east of the "cache" were installed by the previous occupant or by Commercial Envelope. However, the storm drain and associated leach pools were apparently installed prior to Commercial Envelope's purchase of the property in 1976. There are two 10,000-gallon, underground storage tanks on site; one containing gasoline and the other fuel oil. In mid-January 1986, there was a fuel oil spill when an oil distributor pumped too much fuel into one of the tanks.

Commercial Envelope Mfg. Co., Inc. has filled in most of the problem areas with sand in efforts to clean up the site. The three monitoring wells are proposed by Commercial Envelope to be installed to first water. There has been no testing of the incinerator smokestack as air monitoring was not ordered by the SCDHS.

The previous occupant at the facility was Alvin Seal, Inc., whose product line included items such as door frames and steel fencing. It is unknown if the manufacture or assembly of products occurred on site.

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Revisions (please write in corrections to above transcript):

SEE attached information..

Signature: DAVID OBRIEN **Date:** 4/9/86

p 4 & 10

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N Y 11738
(516) 451-4633

NAME OF FACILITY	OWNER/ OFFICER	PAGE 1 OF 2
COMPANY NAME Commercial Envelope Mfg. Corp.	CONTACT	TEL
PLANT ADDRESS 900 Grand Blvd.	VILLAGE Deer Park TOWN Bab. N.Y.	ZIP
MAILING ADDRESS		

DATE 4/9/86 | TIME Am | (ORIG) PERIODIC RE | (NO WASTE) WASTE H&H | SEWAGE SYSTEM PUBLIC (PRIVATE)

Additions + Corrections

(1) On January 30, 1986, the above company pled guilty to one count of Unlawful Discharge of Hazardous Waste in the Second Degree, a class E felony under the NYS Environmental Conservation law, and 100 violations of Section 1217 of the Suffolk County Sanitary Code. On 1/30/86, the company was sentenced to pay a fine of $25,000.00 to the hazardous waste remedial fund under its felony conviction, and an additional $25,000.00 to the County of Suffolk under the Sanitary Code convictions.

(2) Area below "bubbling pool," was scavanged by Chemical Pollution Control starting on Feb. 28, 86. Area below was a typical 3 ring leaching pool with a cement dome on top, the rings were approx. 12 ft across + the hole was approx. 18 ft. deep. The physical appearance was that a hole had been chopped thru a side wall of the dome (Southern edge.) + a hole in the PVC pipe entering the leaching pools East of this pool allowed solids + liquid to enter the pool, no other means of waste entering the pool were discovered.

Chemical Pollution Control (CPC) removed approx. 1500 gal. of liquid + 31 x 55 gal. of sludge from the pool.

Sample of sludge 3PO 2/27 revealed Cu = 68.0 ppm, tot Chromium 210 ppm, Nickel 16.0 ppm, Lead 27.0 ppm, Cadmium < 1.5 ppm, Silver < 1.5 ppm. (analysis sheet attached).

(3) 3/4/86 - CPC filled in leaching pool below "bubbling pool" with clean sand to grade.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER		PAGE 2 OF 2
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT		TEL
PLANT ADDRESS	#900 Grand Blvd.	VILLAGE Deer Park	TOWN Babylon N.Y.	ZIP
MAILING ADDRESS				
DATE 4/9/86	TIME [illegible]	ORIG PERIODIC RE	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

(4) The three under ground INK waste tanks located on the East side of Commercial were found to still contain industrial waste. Approx. 3000 gal. of liquid + approx. 100 x 55 gal. of sludge.

On Friday, 4/4/86 the three tank were filled in with cement + all influent pipes plugged with cement.

(5) Additional soil contamination was discovered along the West side of the excavation around the ink waste tanks. (1D03/27) The analysis revealed; Copper 865.0 ppm., tot Chromium 37.0 ppm, Nickel 25.0 ppm, Lead 1660.0 ppm., Cadmium. ∠2.2, Silver ∠2.2, by EPA soil analysis.

Commercial Envelope Mfg has been ordered by SCDHS to remove this contamination.

(6) Area around + below the trash compactor on the East side of the B16. was again filled with liquid industrial waste which was removed by CPC.

DAVID GERLING PHS.

Correction

NOTE: 2nd Para. There are three leaching pools located on the East side of Commercial Envelope Mfg Corp. all three were receiving industrial waste.

David Gerling PHS

18-234 9/84

COPY

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247 2/82

FIELD NO. 100327 LAB NO. 2-86-122 DATE COMPLETED 3/11/86 S. Gallagher

NAME OR FIRM Commercial Envelope Mfg. Corp.

ADDRESS OR LOCATION Grand Blvd. Deer Park

POINT OF COLLECTION Blue/green material found, 2ft below grade, in West side of waste ink tank excavation.

REMARKS/INSTRUCTIONS

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	865. ppm.
CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS			(EPA Analysis Soil,		X	CHROMIUM-TOT	37.
COD			Methods,		X	NICKEL	25.
TOC			)		X	ZINC	—
					X	LEAD	166.
					X	CADMIUM	< 2.2
NITRATE-N					X	SILVER	< 2.2
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)				
			TEMP. (FIELD)				

SOLID

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION		
1. COLLECTED BY	David Obrig	SCDHS	2/27/86 DATE	11:00 TIME
2. POSSESSION BY	David Obrig	SCDHS	2/27/86 11:00 DATE - TIME	TO 2/27/86 12:00 DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	S. Gallagher		2/27 12:00 DATE	TIME
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

LAB NO. IW 286025
REC'D 2-27-86 by FA
FIELD NO. IRS2-27

F.10
POJ

DATE COMPLETED 3-6-86
EXAMINED BY FJA

COPY
BO

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name Commercial Envelope Mfg. Corp.

Location Grand Blvd Deer Park N.Y.

Point of Collection EAST SIDE OF BLDNG., PINK LIQUID FROM INSIDE MANWAY OF INGROUND METAL INK WASTE TANK, FURTHEST West of the 3 ink tanks

Remarks

BD None

Compound	ppb	Compound	ppb
1,2 Dichloroethane	<20	Chlorobenzene	<20
1,1 Dichloroethane	<20	p-Diethylbenzene	—
Chloroform	<20	p-Ethyltoluene	<20
1,1,2,2, Tetrachloroethane	<20	1,3,5 Trimethylbenzene	<20
Methylene Chloride	<20	1,2,4 Trimethylbenzene	—
1,1 Dichloroethylene	<20	Chlorotoluene(s)	<20
cis 1,2 Dichloroethylene	160		
		1,2,4,5 Tetramethylbenzene	<20
1,1,1 Trichloroethane	<20	m,p-Dichlorobenzene	<20
1,1,2 Trichloroethane	<20	o-Dichlorobenzene	<20
Carbon Tetrachloride	<20	Bromobenzene	<20
1,1,2 Trichloroethylene	<20	1,2,4 Trichlorobenzene	<20
Freon 113	<20	1,2,3 Trichlorobenzene	<20
Tetrachloroethylene	73		
		Octane	<20
Benzene	<20	Nonane	180
Toluene	100	Decane	550
Styrene	<20	Undecane	330
Ethylbenzene	81		
Xylene(s)	290		

During transport of the sample from collection point to laboratory, the chain of custody must not be broken. The sample should be delivered by the sample collector or a designated representative who will sign for the receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
Collected by	Robert Gyftakis	SCDHS	2/27/86	3:00
Transfered to	Francis J Amendola	SCDHS-PHL	2-27-86	3:45PM
Transfered to				
Transfered to				

COPY

TRC 3/27/86.

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247 2/82

FIELD NO. 3 DO 2/27 LAB NO. 2-86-124 DATE COMPLETED 3/11/86 B. Matt

NAME OR FIRM Commercial Envelope Mfg Corp

ADDRESS OR LOCATION Grand Blvd. Deer Park.

POINT OF COLLECTION sludge from bottom of 3rd leaching pool,

REMARKS/INSTRUCTIONS ~~[illegible]~~ found below "bubbling pool", Southern edge of pond.

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	68. ppm
CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	21.
COD					X	NICKEL	16.
TOC					X	ZINC	←
					X	LEAD	27.
					X	CADMIUM	< 1.5
NITRATE-N					X	SILVER	< 1.5
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)				
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE - TIME		TO	DATE - TIME	
1. COLLECTED BY	David Oberg	Suff Co. Health Dept.	2/27/86 DATE	11:20 TIME			
2. POSSESSION BY			2/27/86 DATE	11:20 TIME	TO	2/28/86 DATE	12:00 PM TIME
3. POSSESSION BY			DATE	TIME	TO	DATE	TIME
4. RECEIVED LAB BY	B. Matteo		2/27 DATE	12:00 TIME			
5. POSSESSION BY			DATE	TIME	TO	DATE	TIME
6. POSSESSION BY			DATE	TIME	TO	DATE	TIME

COPY

ERE 3/25/86

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247. 2/82

FIELD NO. 4D02127(M) LAB NO. 2-86-125 DATE COMPLETED 3/10/86 G. Hall

NAME OR FIRM Commercial Envelope Mfg. Corp.

ADDRESS OR LOCATION Grand Blvd, Deer Park NY

POINT OF COLLECTION East side of Bldg, pink liquid from inside manway

REMARKS/INSTRUCTIONS 2nd inground metal ink waste tank, furthest West of three tanks

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.34 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	12.
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.1
COD					X	NICKEL	<.1
TOC					X	ZINC	1.4
					X	LEAD	<.2
					X	CADMIUM	<.02
NITRATE-N					X	SILVER	.05
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)	ph=6			
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE - TIME	TO	DATE - TIME
1. COLLECTED BY	David Obry	SCDHS	Feb 27, 86		3:05 pm
2. POSSESSION BY	David Obry	SCDHS	2/27/86 3:05 pm		2/28/86 8:00 AM
3. POSSESSION BY			DATE - TIME	TO	DATE - TIME
4. RECEIVED LAB BY			DATE		TIME
5. POSSESSION BY			DATE - TIME	TO	DATE - TIME
6. POSSESSION BY			DATE - TIME	TO	DATE - TIME

COPY
DO

3/25/86

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247 2/82

FIELD NO. 5D02727(M) LAB NO. 2-86-126 DATE COMPLETED 3/10/86 B. Hall

NAME OR FIRM Commercial Envelope Mfg Corp.

ADDRESS OR LOCATION Grand Blvd. Deer Park N.Y.

POINT OF COLLECTION East side of Bld. pink liquid from inside manway of inground metal ink waste tanks, furthest East of three tanks.

REMARKS/INSTRUCTIONS

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH(LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.5 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	120.
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.7
COD					X	NICKEL	.6
TOC					X	ZINC	2.2
					X	LEAD	.9
					X	CADMIUM	<.02
NITRATE-N					X	SILVER	.05
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)	ph=6			
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION		
1. COLLECTED BY	David Obrig	SCDHS	Feb 27, 86 DATE	3 10 PM TIME
2. POSSESSION BY	David Obrig	SCDHS	2/27/86 3 10 PM DATE - TIME TO	2/28/86 12 00 PM DATE - TIME
3. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY			DATE	TIME
5. POSSESSION BY			DATE - TIME TO	DATE - TIME
6. POSSESSION BY			DATE - TIME TO	DATE - TIME

Appendix 1.1-4
p 1 of 1

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) FILE 162103, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: David Ohrig Date: 4 April 1986

Phone Number: 516 451-4633 Title: _____

Affiliation: SCDHS Type of Contact: phone

Address: _____ Person Making Contact: Lightner

_____

Communications Summary: Re: Commercial Envelope

Dave called regarding the Interim Acknowledgement Form. He questioned our indication that Steven Crystal is the owner. He believes it is Ira Crystal, Steven's father. I told him we would check on this. Since the site recon, there has been a conviction and clean-up work at the site. Drums of material have been removed. The ink waste holding tanks have been cleaned out and filled with cement. The loading dock area was scavengered again. From the "filled in" pools — 3,000 gal of industrial waste liquids and ~150 drums of sludge were removed. The "Castle" was opened and scavenged. It was found to be a 3rd leaching pool. Removed 10's of drums of sludge of blue-black ink wastes.

(see over for additional space)

Signature: Rebecca Lightner

Dave will update IAF and send it along with analytical data.

5 HEATHERLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-9833

Appendix 1.1-5

	OWNER/ OFFICER	PAGE 1 OF 1
Commercial Envelope Mfg. Corp.	CONTACT	TEL
900 Grand Blvd. VILLAGE Deer Park TOWN Bab. NY		ZIP

8.24.84	TIME 2:00 pm	ORIG.	PERIODIC	RE.	WASTE	NO WASTE	HBH	SEWAGE SYSTEM PUBLIC PRIVATE

Babylon Town Hall - Building Dept., investigation of Commercial Envelope Mfg Corp. as per building Permits/or construction plans.

The orginal building was constructed in 1973 and the original tenant was a firm called Nu-Seal Inc., they occupied the building until approx 1978 when Commercial Envelope moved into the site.

Of special note: there are two (2) large underground tanks at site, originally they held fuel oil, however the use on one tank was changed to hold gasoline. At the facility now there are two 10,000 gal. tanks, 1 holds fuel oil the 2nd holds gasoline.

Of special note: On construction plans obtained at Babylon Town Bldg. Dept. Industrial Chemical + Air Pollution Survey, 12/7/79, signed by Inv. B. Kingsley received the time;

Received from:
Suffolk Co. Dept. of
Health

Appendix 1.1-6

HOLZMACHER, McLENDON and MURRELL, P.C. • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS AND PLANNERS
125 BAYLIS ROAD, SUITE 140, MELVILLE, N.Y. 11747 • 516-752-9060

RECEIVED
APR 12 1985
SUFFOLK COUNTY
JOB NO.

April 9, 1985

Mr. John Soderberg
Suffolk County Dept. of
Health Services
15 Horseblock Place
Farmingville, New York 11738

Re: Commercial Envelope Mfg. Co.
Air Permit

Dear Mr. Soderberg:

Enclosed is a completed application to operate a high-temperature incinerator at the Commercial Envelope facility in Deer Park.

There are now no liquid waste discharges to ground at this plant, other than sanitary wastewaters.

Yours truly,

HOLZMACHER, McLENDON & MURRELL, P.C.

Hugo D. Freudenthal, Ph.D.

HDF:rms
Enclosure

cc: Ira B. Kristel, President
Paul Creditor, Esq.

P 2 A 6

ESTIMATE OF EMISSIONS

COMMERCIAL ENVELOPE MFG. CO., INC.

General Information

Commercial Envelope Manufacturing Co., Inc. is engaged in the business of producing and printing envelopes. The major sources of industrial wastewater at this facility include a printing-wash station, photo laboratory and miscellaneous wash sinks. The current wastewater flows from these sources are estimated to total approximately 750 gallons per day. These non-hazardous wastewaters are accumulated within the facility building in a 2000-gallon capacity, above-ground storage tank. The wastewaters are disposed of by high-temperature incineration in a liquid waste disposal system.

In order to determine the "emission rate potential" (ERP) from the liquid waste disposal system, several samples of the liquid waste were analyzed during the period of December 1984 through February 1985. Based on these analytical data, the characteristics of the wastewater fed to the incinerator and the emissions were estimated. Details of these computations are presented below.

Computations

Number of hours of system* operation per day	24 hours
Number of days of system operation per week	5 days
Number of weeks of system operation per year	50 weeks
Design wastewater feed rate to the system	0.67 GPM
Design wastewater feed rate to the system per hour	40 gallons

*System = waste disposal system

Estimated Emissions:

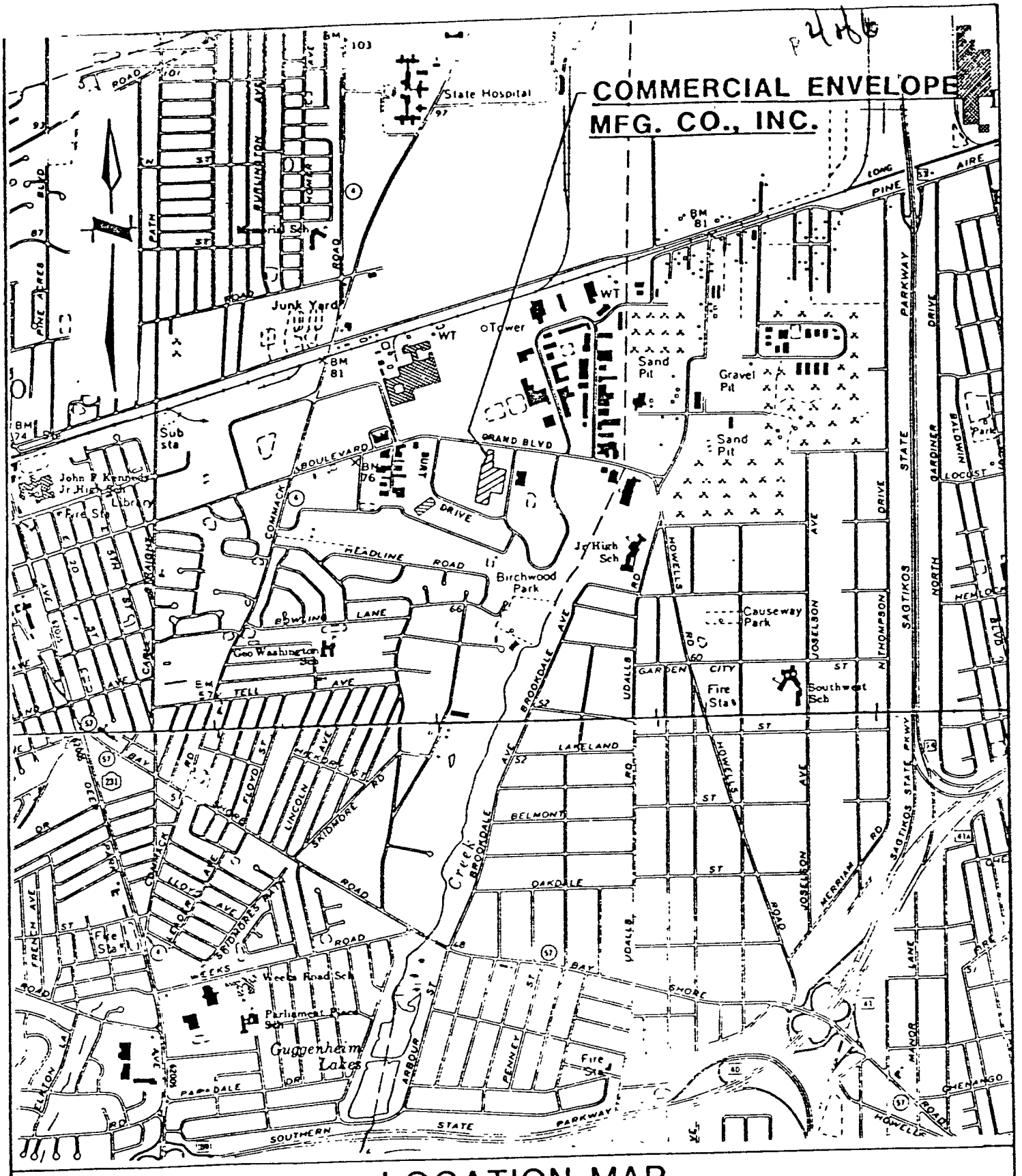
Wastewater Constituent	Estimated* Maximum Concentration (mg/l)	Input to Liquid Disposal System (lbs/hr)	Actual Emissions (lbs/hr)	Emission Rate Potential (ERP) (lbs/hr)	Actual Emissions (lbs/yr)
Lead Oxide (as Pb)	3.0	1.00×10^{-3}	1.00×10^{-3}	1.00×10^{-3}	6.0
Silver Salts (as Ag)	2.8	9.30×10^{-4}	9.30×10^{-4}	9.30×10^{-4}	5.61
Copper Salts (as Cu)	31.2	1.04×10^{-2}	1.04×10^{-2}	1.04×10^{-2}	62.5
Iron Salts (as Fe)	193.0	6.44×10^{-2}	6.44×10^{-2}	6.44×10^{-2}	386.6
Particulates**	3928.0	1.31	1.31	1.31	7867.0
Hydrogen Chloride***	Traces	2.30×10^{-4}	2.30×10^{-4}	2.30×10^{-4}	1.38

*Based on four sets of analytical data. The concentration data presented are the maximum detected levels.

**Assumed to be generated from the dissolved and suspended solids content of the wastewater.

***Assumed to be generated from the combustion of trace quantities of volatile halogenated organic compounds present in the wastewater. This includes methylene chloride (0.37 mg/l max.) and tetrachloroethylene (0.42 mg/l max.).

FIGURE-1

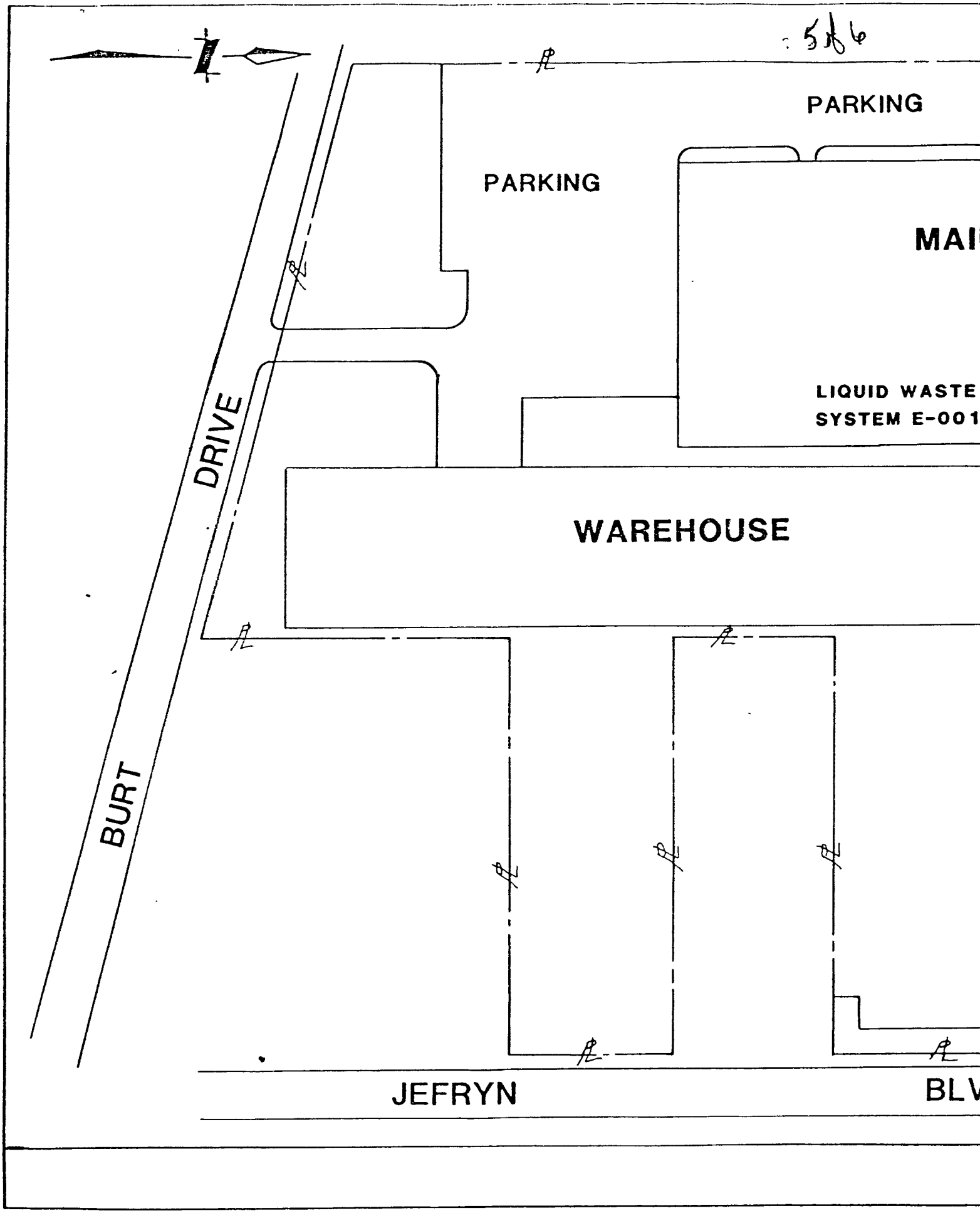


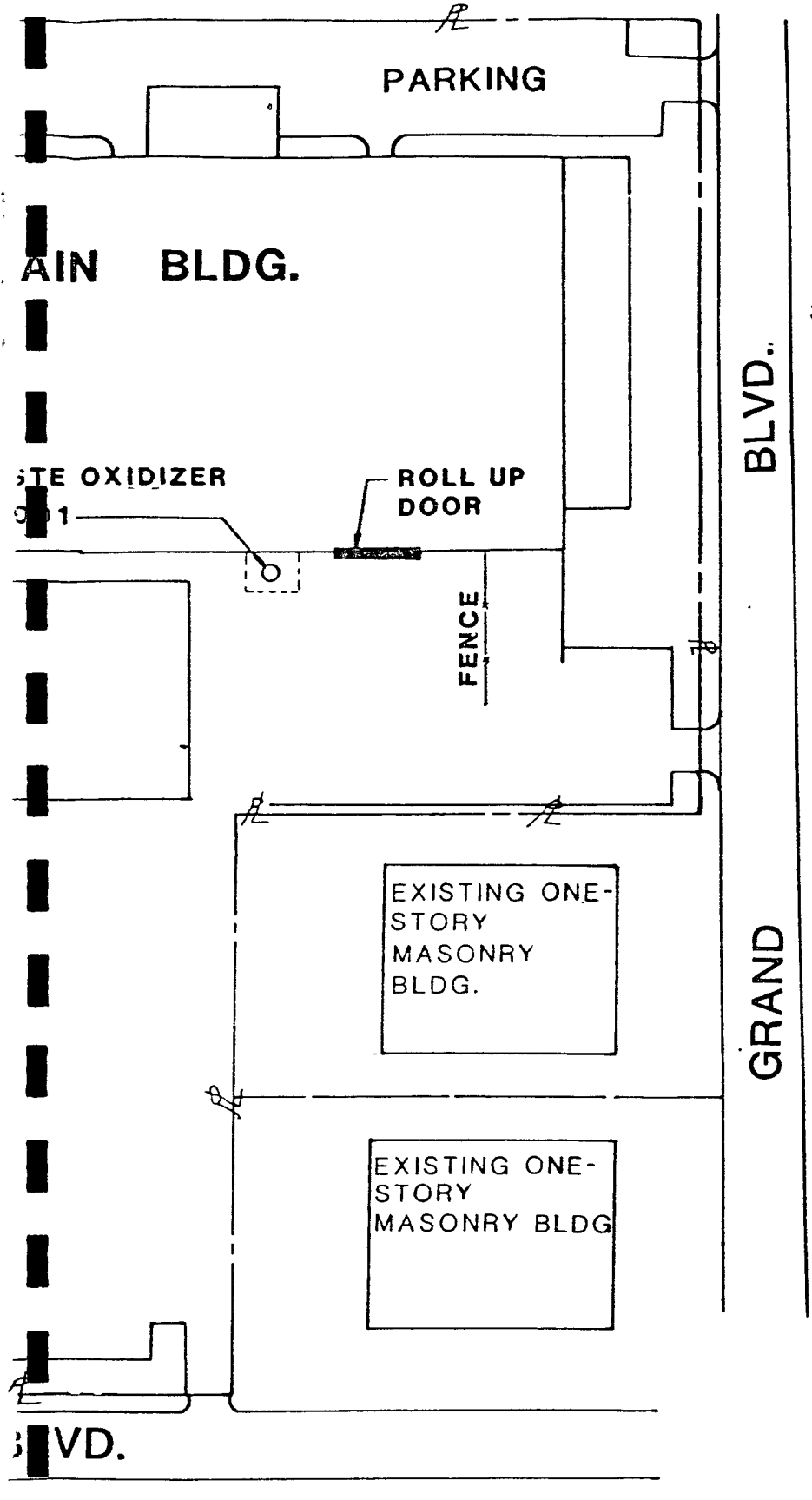
LOCATION MAP
COMMERCIAL ENVELOPE MFG. CO., INC.

SCALE: 1"=2000'

H2M HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE N.Y.
RIVERHEAD N.Y.


5 of 6
PARKING
PARKING
MAI
LIQUID WASTE
SYSTEM E-001
DRIVE
WAREHOUSE
BURT
JEFRYN
BLV



NOTES:

1. PREDOMINANT WIND DIRECTION — SUMMER: SOUTH-WE; WINTER: NORTH-WES
2. SHORTEST DISTANCE TO FENCE LINE — 150ft. (EAST)
3. SHORTEST DISTANCE TO BUILDING OUTSIDE FENCE LINE — 185ft. (EAST)

SITE - PLAN

COMMERCIAL ENVELOPE MFG CO., INC

300 GRAND BLVD.
DEER PARK, NEW YORK
JANUARY 1985

S.C.I.D NO
DWG 00001

H2M HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD N.Y.

Appendix 1.1-7

HOLZMACHER, McLENDON and MURRELL, P.C. • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS
125 BAYLIS ROAD, SUITE 140, MELVILLE, N.Y. 11747 • 516 752 9060

February 20, 1985

Peter R. Akras, M.S.P.H.
Public Health Engineer
Suffolk County Dept. of
Health Services
15 Horseblock Place
Farmingville, NY 11738

Re: Commercial Envelope
Mfg. Co. Warehouse

I

Dear Mr. Akras:

Pursuant to your telephone request, I am reporting on the occurrence of hazardous materials in the new "warehouse" of our client, Commercial Envelope Mfg. Co.

I visited the premises yesterday afternoon, unannounced. Walk-through was made once alone, and again with the plant manager. Thus, I am confident that I saw all that was to be seen.

The structure is a 85,000 square foot Butler "prefab" metal building, erected on a concrete pad. It is used primarily for the bulk storage of paper. A small area is used for job-lot printing, on "multilith" type machines. There are no floor drains or wash down facilities.

The following materials were found:

1. 3X55 gal. drums, on pallet
   Derruchem Industrial Degreaser
   These drums belong to the contractor, and Commercial Envelope is awaiting their pick-up and removal.

2. 1X55 gal. drum, with hand operated metering pump, on pallet
   Multilith Blankrola Solvent (perchloroethylene and petroleum naptha)
   This is a working drum. The pump dispenses approximately one quart, and is used to fill a small plastic bottle with solvent, used to clean the multilith press rollers.

3. 1X55 drum, with hand operated metering pump, on pallet
   Varn Planket and Roller Wash, V-133
   This has the same use as item 2, above

4A 2X55 gal. drums, on pallet
D.T.E. Heavy Medium (Mobil Oil Co.)

4B 2X55 gal. drums with pump dispenser, on pallet
Ethylene glycol antifreeze

4C 1X55 gal. drum, on pallet
Dextron #2 transmission fluid

4D 1X55 gal. drum with pump dispenser, on pallet
SAE 40 motor oil

(The above drums are working quantities of fluids used in the company's vehicles.)

5. Approximately two dozen X 5 gal. pails, on floor around presses
Multilith ink
These are inks used on the presses. Although I do not have the product sheets, they are manufactured by the "Environmental Inks and Coatings Corp." which implies some degree of environmental compatibility.

There is no bulk storage of solvents, oils, or other hazardous substances within the building. The working drums are stored in such a manner that physical damage or spillage is not likely. Even if a drum were to leak, the broad expanse of level concrete floor would preclude run off outside the building. Such spillage could be controlled by absorbents. As part of our Article XII report, we will be specifying proper storage and containment for future bulk quantities.

Operations within the warehouse appear very tidy, and our client is making a bona fide effort to operate in accordance with Suffolk regulations.

Yours truly,

HOLZMACHER, McLENDON & MURRELL, P.C.

Hugo D. Freudenthal, Ph.D.

HDF:rms

cc: Paul Creditor, Esq.

File Commercial Envelope

Appendix 1.1-8

Received from: Suffolk Co. Dept. of Health

Page 1 of 3

Inspections

Jan. 15, 1981 - Spill complaint, on site, 3:50 p.m., sample. * 1.

Jan. 16, 81 - Full inspection of site; 930 * 2.

Jan. 21, 81 - sampling, sanit. test, holding tanks. * 3.
- discharge into tanks.

Jan. 27, 81 → spill site reinspection. * 4.

Jan. 30, 81 → telephone conversation "previous spill."

Feb. 2, 81 → spill site reinspection, no clean up * 5.

Feb. 11, 81 → sample spill + note on spill. * 6.

FEB. 11 81 → sample, spill. * 7.

Feb. 23, 81 → telephone conversation, Mr. Kaplan

Feb. 27, 81 → Inspection, oil spill cleanup by subsequent contractor * 8.

March 31 → Inspection, Hearing

April 20, 81 → Inspect spill area, for clean up efficiency. * 9.

June 16, 81 → Inspection, Hearing

April 1, 82 - Formal Hearing (14)

MAY 5, 82 → Inspection, hose to S.D. * 10.

Feb. 11, 82 → sample S.D. relay discharge * 11.

July 15, 82 → Inspection, site, to observe [illegible] ? * 12.

Sept. 9, 82 → Inspection, inspector on site * 13.

Sept. 8, 82 → Formal hearing

→ May 6, 82 → Full Inspection * 14.

June 5, 82 → Inspection, pump to S.D. * 15.

(2)

236-5410
Sgt. Estrada

2 of 3

(21) Jan. 26, 84 → Formal Hearing
Postponed
Feb. 2, 84 → Formal Hearing
Feb. 15, 84 → Formal Hearing
March 8, 84 → Formal Hearing
August 24, 84 →
August 29, 84 → JJ - sample ~~[illegible]~~ loading dock + me. 16.

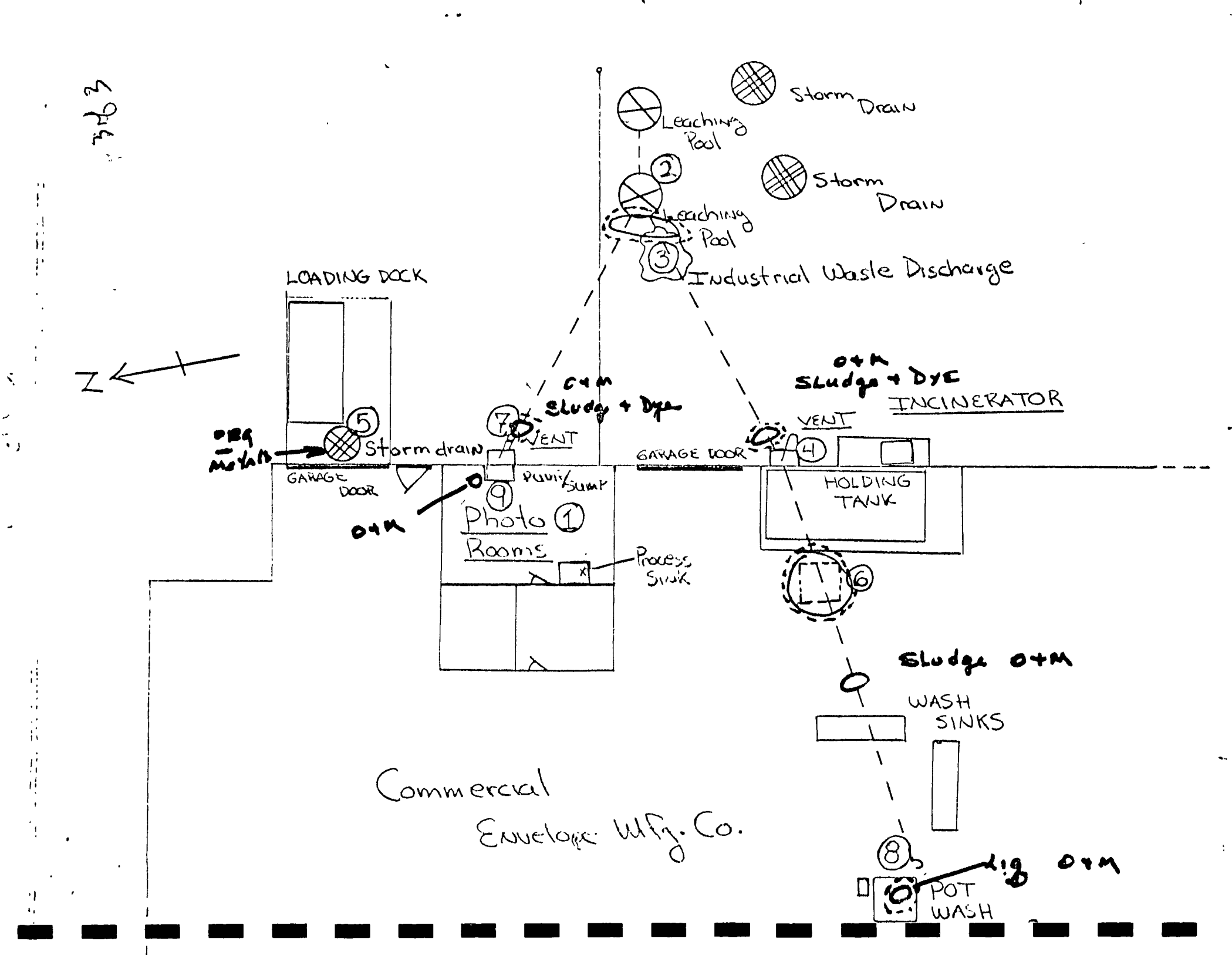
(22) October 23, 84 → bubbling ~~puddle~~ puddle 17.
Oct. 24, 84 → Sample, sans. vent box, puddle 18
NOV. 15, 84 → INSPECTION 19.
Dec. 5, 84 → telephone conversation Dr French w/ commercial co. line to pool.

→ observed pipe [illegible], next to holding tank, which had been cut.

Jan. 3/4, 85 → Pipes in ink pool disk pools, 20.
(23) January 9, 1985 → Certified Letters to Commercial.

Jan. 11, 85 → Overflow [illegible] loading pool. 21.
January 25, 85 → Pumping pool, 22.
June 17, 85 → Incinerator inspection 23.

Jan. 14, 85 → Pipes to ~~[illegible]~~ Loading dock SD, + overflow 24.
Pool filled w/ [illegible]


Storm Drain
Leaching Pool
2
Storm Drain
Leaching Pool
3
Industrial Wasle Discharge
LOADING DOCK
N
O+M
Sludge + Dye
INCINERATOR
VENT
Storm drain
GARAGE DOOR
GARAGE DOOR
PUMP/SUMP
HOLDING TANK
Photo Rooms
Process Sink
Sludge O+M
WASH SINKS
Commercial
Envelope Mfg. Co.
POT WASH

DATE COMPLETED
EXAMINED: Appendix 1.1-9

1 of 8

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Commercial Envelope

916 Fourth Blvd. DP

of Collection - drain covered pool ≅ 10ft east of existing "bubbling pool" on the east side of bldg.

Compound	ppb	Compound	ppb
ylene Chloride	330	Cis Dichloroethylene	<16
n 113	<4	Benzene	<10
oform	<5	Toluene	93
Trichloroethane	150	Chlorobenzene	<12
n Tetrachloride	<1	Ethylbenzene	<10
richloroethylene	<5	Xylene(s)	55
chloromethane	<3	Bromobenzene	<11
Trichloroethane	<5	Chlorotoluene(s)	<12
omobromomethane	<2	1,3,5 Trimethylbenzene	12
oroethylene	11	1,2,4 Trimethylbenzene	28
form	<5	m,p-Dichlorobenzene	<14
Tetrachloroethane	<5	o-Dichlorobenzene	<14
	<40	p-Diethylbenzene	14
e	<10	1,2,4,5 Tetramethylbenzene	<10
	<40	1,2,4 Trichlorobenzene	<11
oluene	15	1,2,3 Trichlorobenzene	<9
ne	40		
ne	58		

Sworn before me this 2nd
day of January 19 85

IDA PUNTURIERI
NOTARY PUBLIC, State of New York
Qualified in Suffolk County
No. 52-4665040

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY

ring transport of the sample from collection point to laboratory, hain of custody must not be broken. The sample should be delivere he sample collector or a designated representative who will sign he receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
llected by		SCDHS	9/19/84	9 40 AM
ansfered to	Francis J Amendola	SCDHS-PML	9-19-84	11 20 AM
nsfered to				
ransfered to				

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 2VV919 LAB NO. 9-84-172 DATE COMPLETED 9/25/84

NAME OR FIRM Commercial Envelope

ADDRESS OR LOCATION 900 Grand Blvd, DP

POINT OF COLLECTION Solid covered pool ≅ 10 ft east of overflowing bubbling "pool" east side of bldg

REMARKS/INSTRUCTIONS

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.08 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	5.
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.4
COD			I hereby certify that this is a true and accurate copy.		X	NICKEL	<.1
TOC			DATE 12/5/84		X	ZINC	.4
			ALBERT F. CRAY NOTARY PUBLIC, State of New York No. 52-0253240 Qualified in Suffolk County Commission Expires March 30, 19 85		X	LEAD	<.2
					X	CADMIUM	.05
NITRATE-N					X	SILVER	1.5
NITRITE					X	CHROMIUM-+6	.4
AMMONIA-N							12/5/84
TKN			pH (FIELD)				
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE - TIME	TO	DATE - TIME
1. COLLECTED BY	J Johnson	SCDHS	9/19/84		9:00 AM
2. POSSESSION BY	J Johnson	SCDHS	9/19/84 9:00 am	TO	9/19/84
POSSESSION BY			DATE - TIME	TO	DATE - TIME
3. RECEIVED LAB BY	J. Mathews		9/19 11:45		
4. POSSESSION BY			DATE		TIME
POSSESSION BY			DATE - TIME	TO	DATE - TIME
			DATE - TIME	TO	DATE - TIME

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 3JJ919 LAB NO. 9-84-173 DATE COMPLETED 9/25/84

NAME OR FIRM Commercial Envelope

ADDRESS OR LOCATION 900 Grand Blvd, DP

POINT OF COLLECTION Loading dock (spill) EAST SIDE of

REMARKS/INSTRUCTIONS of bldg

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.6 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	22 NO
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.06
COD					X	NICKEL	<.1
TOC					X	ZINC	.6
					X	LEAD	.4
					X	CADMIUM	<.02
NITRATE-N					X	SILVER	<.02
NITRITE					X	CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)	≅	In		
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME	TO DATE	TO TIME
1. COLLECTED BY	G Johnson	SCDHS	9/19/84	9 00 AM		
2. POSSESSION BY	G Johnson	SCDHS	9/19/84	9 00 AM	9/19/84	
. POSSESSION BY						
. RECEIVED LAB BY	B. Gallen		9/19	11:45		
. POSSESSION BY						
. POSSESSION BY						

NO. TR-989029
D 9-19-84 By FA
D NO. IJJ919

DATE COMPLETED 11-26-84
EXAMINED BY FA

P 4489

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Commercial Envelope

ion 900 Grand Blvd, DP

t of Collection Storm drain receiving overflow from "Bubbling pool" (± 25 ft SE of pool") on the EAST side of bldg.

ks:

Compound	ppb	Compound	ppb
thylene Chloride	2100	Cis Dichloroethylene	<16
eon 113	<4	Benzene	<10
roform	10	Toluene	690
1,1 Trichloroethane	4	Chlorobenzene	<12
rbon Tetrachloride	<1	Ethylbenzene	50
1,2 Trichloroethylene	<5	Xylene(s)	290
odichloromethane	<3	Bromobenzene	<16
1,2 Trichloroethane	<5	Chlorotoluene(s)	<12
rodibromomethane	<2	1,3,5 Trimethylbenzene	74
achloroethylene	70	1,2,4 Trimethylbenzene	190
moform	<5	m,p-Dichlorobenzene	<14
1,2,2 Tetrachloroethane	<3	o-Dichlorobenzene	<14
ne	<40	p-Diethylbenzene	51
rene	<10	1,2,4,5 Tetramethylbenzene	42
ane	<40	1,2,4 Trichlorobenzene	<16
thyltoluene	91	1,2,3 Trichlorobenzene	<15
Decane	93		
Undecane	170	Methyl Isobutyl Ketone	130

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY

Sworn before me this 2nd day of January 19 85

IDA PUNTURIERI
NOTARY PUBLIC, State of New York
Qualified in Suffolk County
No. 52-4665040
Commission Expires March 30, 19 86

Ida Punturieri

During transport of the sample from collection point to laboratory, the chain of custody must not be broken. The sample should be delivered by the sample collector or a designated representative who will sign for the receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
1. Collected by		SCDH	9/18/84	4:30 PM
2. Transfered to		SCHSOLL	9-19-84	11:20 AM
3. Transfered to				
4. Transfered to				

SUFFOLK COUNTY HEALTH SERVICES LABORATORY 5888

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 78079 LAB NO. 7-85-97 DATE COMPLETED 7-16-85 S.Yale

NAME OR FIRM Commercial Envelope Mfg Corp

ADDRESS OR LOCATION 900 Grand Blvd. Deer Park, N.Y.

POINT OF COLLECTION Green dye colored liquid in sump pool

REMARKS/INSTRUCTIONS at Area #3 - ~~Detour pipe~~ pipe below which enters area #2.

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.1 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	1.2×10^1
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	<.02
COD					X	NICKEL	<.1
TOC						ZINC	
					X	LEAD	<.2
					X	CADMIUM	<.02
NITRATE-N					X	SILVER	<.02
NITRITE					X	CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)				
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☒ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION		
COLLECTED BY	David Obry	SCDHS	July 9, 85 DATE	1 45 pm TIME
POSSESSION BY	Eric Jorgensen	SCDHS	7-9-85 1450hrs DATE - TIME TO	7-9-85 350 pm DATE - TIME
POSSESSION BY			DATE - TIME TO	DATE - TIME
RECEIVED LAB BY	S. Yale		7/9/85 4 pm DATE	TIME
POSSESSION BY			DATE - TIME TO	DATE - TIME
POSSESSION BY			DATE - TIME TO	DATE - TIME

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247 2/82

FIELD NO. 1EJ 7-9 LAB NO. 7-85-98 DATE COMPLETED 7-16-85 B. Mahe

NAME OR FIRM COMMERCIAL ENVELOPE MFG INC

ADDRESS OR LOCATION 900 GRAND BLVD, DEER PARK, NY

POINT OF COLLECTION AREA 5 LOADING DOCK - SLUDGE (AT BASE OF COMPACTOR) and LIQUID (in separate bottle)

REMARKS/INSTRUCTIONS

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS SLUDGE	RESULTS SOLUTION
PH(LAB)		TOTAL SOLIDS	Mg/l	X COPPER	1×10^{2}	Mg/l .17
CHLORIDE	Mg/l	SUSPENDED SOLIDS		X IRON	7.7×10^{3}	48×10^{1}
CYANIDE		DISSOLVED SOLIDS		MANGANESE		
BAS				X CHROMIUM-TOT	2.4×10^{1}	.1
COD		Test results of sludge		X NICKEL	<4.8	<.1
OC		Sample are approximate		X ZINC	1.7×10^{2}	1.1
		values.		X LEAD	5.8×10^{1}	<.2
				X CADMIUM	<.9	<.02
NITRATE-N				X SILVER	2.9	<.02
NITRITE				X CHROMIUM-+6		
AMMONIA-N						
TKN		pH (FIELD)				
		TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☒ COOL 4° C

CUSTODY OF SAMPLE

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE - TIME		DATE - TIME
COLLECTED BY	Eric Jongsma	SCDHS	7-9-85		11 03 AM
POSSESSION BY	Eric Jongsma	SCDHS	7-9-85 11 03 AM	TO	7-9-85 3 50 PM
POSSESSION BY			DATE - TIME	TO	DATE - TIME
RECEIVED LAB BY	B. Mahe		DATE - TIME	TO	DATE - TIME
POSSESSION BY			7/9/85 4 PM DATE		TIME
POSSESSION BY			DATE - TIME	TO	DATE - TIME
			DATE - TIME	TO	DATE - TIME

RECD ... By ...
FIELD NO. 700 [illegible] 7/9

DATE COMPLETED ...
EXAMINED BY ...
ERC 8/19/85 OL

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name Commercial Envelope Mfg Corp.

Location 900 Grand Blvd. Deer Park NY.

Point of Collection Green dye colored liquid from pool below pipe entering area #2. observed active discharge from pipe to pool.

Remarks:

Compound	ppb	Compound	ppb
Methylene Chloride	190	Cis Dichloroethylene	110
Freon 113	<20	Benzene	<20
Chloroform	<20	Toluene	270
1,1,1 Trichloroethane	<20	Chlorobenzene	<20
Carbon Tetrachloride	<20	Ethylbenzene	52
1,1,2 Trichloroethylene	33	Xylene(s)	500
Bromodichloromethane	—	Bromobenzene	<20
1,1,2 Trichloroethane	<20	Chlorotoluene(s)	<20
Chlorodibromomethane	—	1,3,5 Trimethylbenzene	100
Tetrachloroethylene	<20	1,2,4 Trimethylbenzene	420
Bromoform	—	m,p-Dichlorobenzene	<20
1,1,2,2 Tetrachloroethane	<20	o-Dichlorobenzene	<20
Octane	<20	p-Diethylbenzene	15
Styrene	<20	1,2,4,5 Tetramethylbenzene	41
n-Nonane	—	1,2,4 Trichlorobenzene	<20
p-Ethyltoluene	210	1,2,3 Trichlorobenzene	<20
n-Decane	190	1,2 Dichloroethane	<20
n-Undecane	120	[illegible] Dichloroethane	<20
		[illegible] Dichloroethylene	<20

During transport of the sample from collection point to laboratory, the chain of custody must not be broken. The sample should be delivered by the sample collector or a designated representative who will sign for the receipt, integrity, and transfer of the sample during shipment.

	SIGNATURE	AFFILIATION	DATE	TIME
1. Collected by	D L G	SCDHS	7/9/85	1:45 PM
2. Transfered to	[illegible]	SCDHS	7-9-85	1:45 PM
3. Transfered to	Kenneth M. Klick	SCPHL	7-9-85	3:30 PM
4. Transfered to				

LAB NC. IW-795021
REC'D ... By KH
FIELD NO. IES 7-9

DATE COMPLETED ...
EXAMINED BY ERC 8/19

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCE
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name COMMERCIAL ENVELOPE MFG. CORP.

Location 900 GRAND BLVD, DEER PARK

Point of Collection LOADING DOCK - near compactor

Remarks: bluish, wet sludge

Compound	ppb	Compound	
Methylene Chloride		Cis Dichloroethylene	
Freon 113		Benzene	
Chloroform		Toluene	
1,1,1 Trichloroethane		Chlorobenzene	
Carbon Tetrachloride		Ethylbenzene	
1,1,2 Trichloroethylene		Xylene(s)	
Bromodichloromethane		Bromobenzene	
1,1,2 Trichloroethane		Chlorotoluene(s)	
Chlorodibromomethane		1,3,5 Trimethylbenzene	
Tetrachloroethylene		1,2,4 Trimethylbenzene	
Bromoform		m,p-Dichlorobenzene	
1,1,2,2 Tetrachloroethane		o-Dichlorobenzene	
Octane		p-Diethylbenzene	
Styrene		1,2,4,5 Tetramethylbenzene	
n-Nonane		1,2,4 Trichlorobenzene	
p-Ethyltoluene		1,2,3 Trichlorobenzene	
n-Decane		1,2 Dichloroethane	
n-Undecane		1,1 Dichloroethane	
		1,1 Dichloroethylene	

During transport of the sample from collection point to laborato
the chain of custody must not be broken. The sample should be deli
by the sample collector or a designated representative who will sign
for the receipt, integrity, and transfer of the sample during shipme

	SIGNATURE	AFFILIATION	DATE	TIME
1. Collected by	Eric [illegible]	SCDHS	7-9-85	11:03
2. Transfered to	Kenneth M. Hill	SCPHL	7-9-85	3:30
3. Transfered to				
4. Transfered to				

Appendix 1.1-10

p 1 of 3

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Commercial Envelope Mfg. Co, Inc.
( ) _____, ( ) _____
( ) Author

Person Contacted: Jim Penn, PE. Date: 12/10/85

Phone Number: 516 4514634 Title: Public Health Engineer

Affiliation: SCDHS Type of Contact: personal

Address: 15 Horseblock Rd
Farmingville NY

Person Making Contact: Hoing

Communications Summary: Commercial envelope 152103.
The attached form was completed by Mr. Penn.

(see over for additional space)

Signature: William Hoing

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

Note submitted by Pin

PRIORITY CODE: _____ SITE CODE: _____

NAME OF SITE: Commercial Envelope Mfg. Co., Inc. REGION: I

STREET ADDRESS: 900 Grand Blvd.

TOWN/CITY: Deer Park COUNTY: Suffolk

NAME OF CURRENT OWNER OF SITE: Same

ADDRESS OF CURRENT OWNER OF SITE: _____

TYPE OF SITE: OPEN DUMP ☐ STRUCTURE ☑ LAGOON ☐
LANDFILL ☐ TREATMENT POND ☐

ESTIMATED SIZE: _____ ACRES

SITE DESCRIPTION:

Envelope manufacturing firm with photo and printing operations with groundwater discharge

HAZARDOUS WASTE DISPOSED: CONFIRMED ☑ SUSPECTED ☐

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
methylene chloride	
tetrachloroethylene	
toluene	
xylene	
1,2,4 trimethyl benzene	
trichloroethylene	
cis dichloroethylene	
copper	
iron	
zinc lead	

PAGE

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

prior to, 19 29 TO present, 19 ___

OWNER(S) DURING PERIOD OF USE: Commercial Envelope Mfg. Co.

SITE OPERATOR DURING PERIOD OF USE: Same

ADDRESS OF SITE OPERATOR: 900 Grand Boulevard

ANALYTICAL DATA AVAILABLE: AIR ☐ SURFACE WATER ☐ GROUNDWATER ☑
SOIL ☐ SEDIMENT ☐ NONE ☐

CONTRAVENTION OF STANDARDS: GROUNDWATER ☑ DRINKING WATER ☐
SURFACE WATER ☐ AIR ☐

SOIL TYPE: Sand

DEPTH TO GROUNDWATER TABLE: ≈ 15'

LEGAL ACTION: TYPE: _____ STATE ☐ FEDERAL ☐
STATUS: IN PROGRESS ☐ COMPLETED ☐
REMEDIAL ACTION: PROPOSED ☐ UNDER DESIGN ☐
IN PROGRESS ☐ COMPLETED ☐

NATURE OF ACTION: _____

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Potential groundwater contamination problem resulting from several years of continuous discharge of printing ink and photo wastes containing ~~the~~ mixed heavy metal and solvent wastes.

ASSESSMENT OF HEALTH PROBLEMS:

Two private wells downstream from the facility have been contaminated with solvents of the same types discharged by the company, but no direct connection has been proven yet. Also a public well field is located ≈4000' directly downstream from the facility.

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME James H Pim
TITLE Assoc. P.H Engineer
NAME Suffolk Co. Dept of Health
TITLE _____
DATE: _____

NEW YORK STATE DEPARTMENT OF HEALTH

NAME _____
TITLE _____
NAME _____
TITLE _____
DATE: _____

Appendix 1.1-11

HOLZMACHER, McLENDON and MURRELL, P.C • CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

225A MAIN STREET, FARMINGDALE, N.Y. 11735 • 516-694-3410

p 1 of 2

October 24, 1984

Paul Creditor, Esq.
Sarisohn, Sarisohn, Carner,
Steindler, Creditor & LeBow
350 Veterans Highway
Commack, NY 11725

Re: Commercial Envelope Manufacturing Co.

Dear Mr. Creditor:

Together with one of our engineers, we made a preliminary inspection of the Commercial Envelope Manufacturing facility on Friday, October 19. At that time we observed water oozing from the ground in the vicinity of the alleged air conditioner leaching basin. Aside from standing surface water in the vicinity of the pits east of the incinerator, there appeared to be no other discharged water.

Yesterday I received a call from Ms. Joanne Johnson of the Suffolk County Health Department, requesting that we visit the plant together. We arrived there at 1 PM. The previous night there had been heavy rain.

We observed purple colored water bubbling up from one of the pits, and the surrounding ground was flooded. The bubbling up water could not have come from standing stormwater, because the water elevation in the surrounding storm basins was several feet below grade. Clear water was sheeting out from the air conditioner basin. Water was trickling out of the two roof drains on to the ground.

In my presence Ms. Johnson dye tested the hand-wash sink in the factory and the sump in the photo room. Dye did not appear in either the purple effluent or in the inside holding tank. We spent considerable time trying to trace waste lines, but we could not account for the disappearance of the dye.

Ms. Johnson gave me copies of the organic analyses of water taken from the pits (the county is sending you copies by registered mail). High concentrations of organic solvents are shown, of the types used in printing inks. She told me that she called the manufacturers of the inks used, and none of them manufacture water based inks. I suspect that the inks that you are using may be of an emulsion type which is miscible with water, but which still contain organic components. I have asked Mr. Brannigan to obtain the specification sheets on all of the products used, and I urge you to expedite this. If he is unable, we will inventory the materials and

contact the manufacturer. This information must be included in the report.

Commercial Envelope has a serious problem with the existing pools. There is definitely an illegal discharge! As it claimed that the factory is not utilizing the pools, I urge the company to immediately engage the services of a licensed industrial waste contractor to properly remove the material therein and fill the pools. Failure to secure the pools can only result in future violations. As the work will have to be done eventually, it would be advantageous to do it right now!

The contractor must also excavate and trace any waste line back to the building, so that the discharge from the sinks can be found. It is important that we and the County be notified when this work is to take place so that the proper observations can be made.

We have some more work to do in accounting for the discharges, which are not as evident as originally presumed. After the excavation and the completion of our inventory, we should get together for a progress meeting.

Yours truly,

HOLZMACHER, McLENDON & MURRELL, P.C.

Hugo D. Freudenthal, Ph.D.

HDF:rms

cc: Joanne Johnson, SCHD
Ira B. Kristel, Pres.

Appendix 1.1-12

1.1-12

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	OWNER/ OFFICER Mr. Ira Krystal	PAGE ___ OF ___
COMPANY NAME Commercial Envelope Mfg. Corp.	CONTACT Mr. Roy Brannigan	TEL
PLANT ADDRESS Grand Blvd.	VILLAGE Deer Park TOWN Bab N.Y.	ZIP
MAILING ADDRESS		

DATE	TIME	ORIG	PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC / PRIVATE
June 17, 85	3 00 PM								

Inspection of Commercial Envelope Mfg. for "certificate to operate" "liquid waste incinerator."

I was accompanied on my inspection by, a Mr. Leroy Brannigan of Commercial Envelope. We inspected the waste incinerator, the waste holding tank, + the two general sources of waste to the tank.

At the location of the "wet scrubber" I noticed a circular area of 1-2" pipe with the pipe stick up up approx. 6-8", + I asked Mr. Brannigan if the use of the pipe that the water had discharged into. He went under the floor (in the shed) and had discovered into leaching pits that had been covered + filled. Mr. Brannigan said "Yes" that was the discharge site.

David Oberman RHO.

18-234 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, NY 11738
(516) 451-4633

Log ___ SPDES ___
New ___ Comp ___
Art XII ___ Letter ___
Air ___ Sample ___

NAME OF FACILITY COMMERCIAL ENV.	OWNER/ OFFICER	PAGE ___ OF ___
COMPANY NAME	CONTACT	TEL
PLANT ADDRESS 900 GRAND BLVD	VILLAGE Deer Park TOWN	ZIP
MAILING ADDRESS		

SUMMARY of SAMPLES

DATE	TIME	ORIG PERIODIC RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

1DO 79 - ORGANIC & SLUDGE 1050 AM
AREA 7 - VENT

1103 AM 1 EJ 79 LOADING DOCK MET.; SLUDGE; ORG

1135 AREA 6 2 DO 79 PIPE in hole in front of hold TANK EAST PIPE (O.M.S.)

1134 AREA 6 3 DO 79 PIPE in hole in front of hold tank WEST PIPE (O.M.S.)

1158 POT WASH M & O 4 DO 79

1211 SUMP in Photo Room 5 DO 79 M & O

1224 2 EJ 79 Removed SAMPLES from CUT OFF pipe S & O

118 6 DO 79 SLUDGE from BUB. Pool

145 7 DO 79 O & M LIQUID from BUB Pool

Appendix 1.1-13

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

Received from: Suffolk Co. Dept. of Health

NAME OF FACILITY	OWNER/ OFFICER Mr. Ira Crystal	PAGE 1 OF 3
COMPANY NAME Commercial Envelope Mfg. Corp.	CONTACT	TEL
PLANT ADDRESS	VILLAGE Deer Park TOWN Bab. N.Y.	ZIP
MAILING * ADDRESS 900 Grand Blvd.		
DATE July 9, 85 TIME 6 00 AM PM ORIG PERIODIC (RE)	(WASTE) NO WASTE H&H	SEWAGE SYSTEM PUBLIC (PRIVATE)

SPECIAL NOTE: ! !

While dye testing the pipe that connected the ~~rock~~ "ink pot" wash machine to a leaching pool, which is located on the East side of Commercial Envelope Mfg Corp. some difficulty was encountered. Two bottles of dye (250ml.) had been inserted into a pipe located adjacent to the "ink pot" wash machine. [This same pipe had been previously identified to me as discharging into the leaching pool(s) (two pools in line) located on the East side of Commercial Envelope, by Mr. LeRoy Brassington, Manager at Commercial.]
A garden type hose was connected to a nearby hand wash sink, the valve was turned on full, and the end of the hose inserted into the pipe. Within 2-3 minutes the dye (green) was observed at an excavation approx 100 Ft. to the East of the "ink pot" wash machine. [This ~~excavation~~ location was the site of a previous excavation that had resulted in the pipe being cut, (a 32" section was removed, which was later found in the excavation) and plugged with ~~a~~ 4.5" wooden plugs. These plugs had previously been removed prior to sampling the material in the pipes.]
The dyed liquid poured out of the Western unplugged line, flowed across dirt, then entered the Eastern unplugged line. This flow occured for approx. 5 minutes, when we removed the hose from the pipe and reinserted it in the Eastern unplugged line. The Additional green dye was added to the liquid + the flow from the hose continued. - - -

18-234 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N Y 11738
(516) 451-4633

NAME OF FACILITY: Commercial Envelope Mfg Corp.	OWNER/ OFFICER: Mr. Ira Crystal	PAGE 2 OF 3
COMPANY NAME	CONTACT	TEL
PLANT ADDRESS	VILLAGE: Deer Park TOWN: Bab. N.Y.	ZIP
MAILING ADDRESS: 900 Grand Blvd.		
DATE: July 9, 85 TIME: 600 ⇒ ORIG PERIODIC (RE)	(WASTE) NO WASTE H&H	SEWAGE SYSTEM: PUBLIC (PRIVATE)

In all the flow into the Eastern end of the line continued for approx. 7-10 minutes. The dye did not appear in any of the exposed pipes in the suspect leaching pool.

Prior to the search liquid had been observed discharging out of the ground approx. 6ft to the west of the suspect leaching pool. It was thought that the discharge was from a broken pipe which had originally exited in the suspect leaching pool. Therefore a excavation was started at that approximate site of the discharge up thru the ground.

The digging proceeding down thru sand and some wooden debris until a pressurized pocket of gas was encountered. Meter reading for LEL went off the scale, and the immediate area was cleared. After approx. 10-15 min. additional reading were taken, the LEL limit was still present, ~~but only at the~~ but significantly lower, digging continued.

The digging continued until an open area underground was encountered. Then a 9" opening in the ground a liquid filled pit was observed. The liquid was "dye green" in color. A 2x4" probe was inserted down approx. 6-8ft. with no bottom encountered. Liquid sampled were removed via a plastic scoop. ~~Because of continued high LEL, Hnu readings the hole was not widened, but was reseated with~~ A 4-6" white pipe was observed crossing over the pit, this pipe was observed discharging "dye green" liquid into the pit liquid at a steady rate. ~~Hnu readings~~

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, NY 11738
(516) 451-4633

NAME OF FACILITY: Commercial Envelope Mfg Corp.	OWNER/ OFFICER: Mr. Ira Crystal	PAGE 3 OF 3
COMPANY NAME	CONTACT	TEL
PLANT ADDRESS	VILLAGE: Deer Park TOWN: Bab. NY	ZIP
MAILING ADDRESS: 900 Grand Blvd.		

DATE: July 9, 85 | TIME: 6 PM | ORIG | PERIODIC (RE) | (WASTE) NO WASTE H&H | SEWAGE SYSTEM: PUBLIC (PRIVATE)

Because of continued elevated LEL readings and steady low O2 readings it was decided not to completely expose the "pit". The hole was ~~extend~~ covered with wood and the sand was replaced into the excavation.

~~The discovery of this additional pollution site~~
The discovery of this unknown "pit" at Commercial Envelope raises some important questions.

1. What is the "pit"?
   - (A) is it a leaching pool?
   - (B) is it a septic tank?
   - (C) is it a holding tank?

Should the SCDHS now require Commercial Envelope to excavate that site fully expose the pit. Identify its nature, and if a pollution site, remove the liquid / sludge present.

DAVID OBRIEN PHS.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N Y 11738
(516) 451-4633

NAME OF FACILITY: Commercial Envelope Mfg. Corp.	OWNER/ OFFICER: Mr. Ira Krastel	Pros. PAGE ___ OF ___
COMPANY NAME	CONTACT	TEL
PLANT ADDRESS	VILLAGE: Deer Park TOWN: Babylon NY	ZIP
MAILING ADDRESS: 900 Grand Blvd.		

DATE: July 9, 85 TIME: 6 00 AM | ORIG PERIODIC (RE) | (WASTE) NO WASTE H&H | SEWAGE SYSTEM (PUBLIC) (PRIVATE)

Search Warrent Investigation

Personel of the DA's Special Investigation - Environmental Crimes Unit, ie. Investigator Stephen Prelack, + Investigator John Flynn, presented a Warrent for a search at Commercial Envelope Mfg Corp., located at 900 Grand Blvd. Deer Park, NY. The search was to located and dye test particular pipes from the inside of Commercial Envelope, that emanated from the "photo rooms" area and a "ink pot" wash machine. These pipes ~~led~~ led under the floor or ground outside Commercial to the East and ~~had~~ had discharged into a series of two leaching pools. The search also was to conduct sampling of any "sludge" inside those pipes, and liquid from the "ink pot" wash machine, a small collection sump inside the photo rooms, and a "wet" area beneath a loading dock compactor. ~~The~~ The Environmental Crimes Unit was assisted by an additional four investigators, they were to lend a hand excavating the pipes and pools, The additional investigators also shot 35mm prints of the seach, and video taped the sampling.

The identification of particular points to be excavated or sampled was facilitated by personel from the Inspectional Services Section, of the Bureau of Environmental Health ie. Ms. JoAnn Johnson + Mr David Obry ~~[illegible]~~. All samples were to be taken only ~~[illegible]~~ the ~~[illegible]~~ pipes. This identification was ~~[illegible]~~ possible by the more than thirty inspection/sampling conducted by Ms Johnson + Mr Obry at Commercial Envelope prior to the [illegible] by the D.A.

CONTINUED: INSPECTORS OBSERVATIONS OR INTERVIEWS

July 9, 85

The Suffolk County Health Dept. sampling team was Mr. Eric Young, Mr. David Oberg, Mr. [illegible], assisted by Mr. Edwards. Full protective gear was utilized i.e. white hooded protective coveralls, boots, double gloves, SCBA, + two way communications, + LEL/O_2 meters, + lifelines.

The search for the pipes to dye test involved excavation and exposure of two systems discharging into one leaching pool. The line from the "photo rooms" was intercepted as it exited from a cement filled sanitary vault, which is opposite the "photo rooms" on the East outside wall of Commercial. A shallow trench was excavated approx. 3 Ft. wide, 3 Ft. deep + 4-5 Ft. long, this exposed the gray/white composite pipe. Members of the Suffolk County Police-Emergency Service Unit, drilled and chiseled a hole 3" by enough to obtain a sludge sample + to dye test the line.

The pipe from the "ink pot" wash machine, had been previously exposed, cut + plugged inside the printing area. This portion of the pipe was re excavated, & the site was a 4 ft wide x 4 ft long by 4-5 ft deep square hole.

These two pipes ~~exited~~ had previously discharged into a two leaching pools in line, both pools had been ordered pumped + filled in by the SCDHS. The first pool in line with some help from the Babylon Town Highway Dept., was broken open with a jack hammer, and the clean fill previously applied was removed. The leaching pool was excavated down to the 2 discharge pipes, at a dept of approx. 6-7 Ft. below grade.

At that time samples were obtained from the "ink pot" wash machine. On both sides of the plugged line from the "ink pot" machine, and an attempt was made to obtain sludge from the end of the pipe, however none was obtained. From the "photo rooms" area a liquid sample was obtained from a small collection sump along the East wall.

The drilled open "photo room" line was sampled for sludge. The "photo" discharge point in the leaching pool was investigated however there was not sludge to obtain a sample.

A large accumulation of purple liquid inside the loading dock, below the trash compactor, was sampled.

Red dye and approx. 40 gal. of water was inserted into the "dark rm." pipe outside the east side of the Bld. Within approx. 1 min. the red dye appeared inside the leaching pool from a pipe on the NW edge. Green dye and a garden hose on "full" was inserted into a pipe at the "ink pit" wash machine, this green liquid soon appeared at the hole where the pipe was cut and plugged. The liquid soon flowed into the East section of the cut pipe, additional green dye + water via the garden hose was applied to the section, the green dye did not appear at the leaching pool.

An excavation was started approx. 6Ft. West of the leaching pool, hoping to intercept the pipe into the pool. A hole approx 4 ft deep was excavated, at where ~~pipe~~ we discovered a open "pit", with liquid inside, the liquid was ~~gre~~ colored - green" very similar to the dye, a pipe across the opening was observed discharging a small stream into the pit. A 2x4 board was inserted into the pit to a depth of 6-8 below grad, it did not touch bottom. There were explosive gases measured in the pit, a liquid sample ~~was~~ was obtained from the liquid inside the pit, after the gases dispersed.

The samples were preserved by ice, & transported to the WE&S lab & the SCDHS lab in Central Islip.

The entire search was from approx 6AM to 4PM with the after hours.

David Oberg RHS.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY COMMERCIAL ENV.	OWNER/ OFFICER	PAGE ___ OF ___
COMPANY NAME	CONTACT	TEL
PLANT ADDRESS 900 GRAND BLVD	VILLAGE Deer Park TOWN	ZIP
MAILING ADDRESS		

SUMMARY of SAMPLES

DATE	TIME	ORIG	PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC	PRIVATE

1DO 79 - ORGANIC & SLUDGE 1050 AM
AREA 7 - WEST

1103 AM 1 EJT 79 LOADING DOCK MET.; SLUDGE; ORG

1125 AREA 6 2 DO 79 PIPE in hole in front of hold TANK EAST PIPE (O.M;S)

1134 AREA 6 3 DO 79 PIPE in hole in front of hold TANK WEST PIPE (O.M;S)

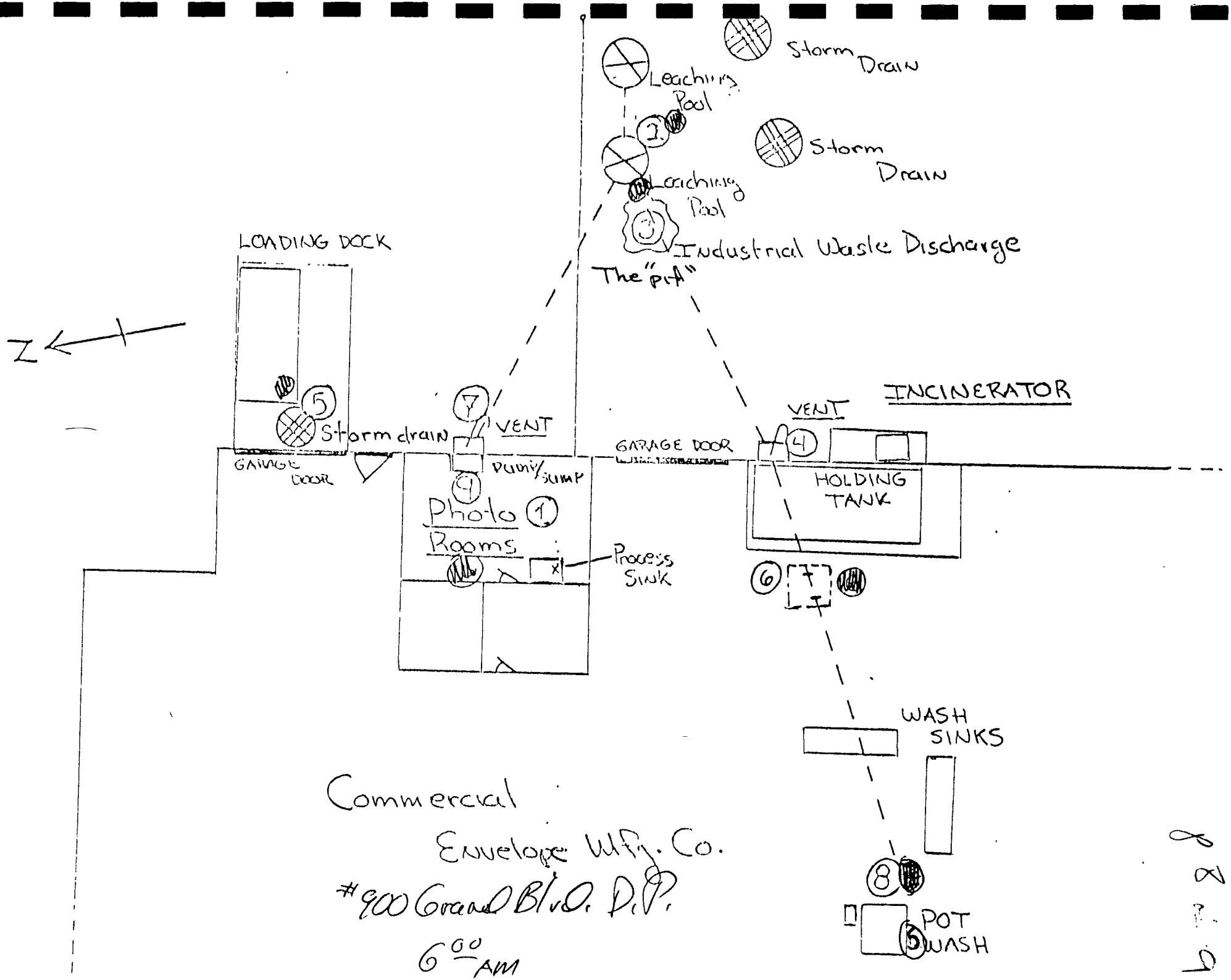
1158 POT WASH M & O 4 DO 79

1211 SUMP in Photo Room 5 DO 79 M & O

1224 2 EJT 79 Removed SAMPLES from CUT SECT OF PIPE S & O

118 6 DO 79 SLUDGE from BUB. Pool

145 7 DO 79 O & M LIQUID from BUB Pool


Storm Drain
Leaching Pool
1
Storm Drain
Leaching Pool
3
Industrial Waste Discharge
The "Pit"
LOADING DOCK
N
5
Storm drain
7
VENT
GARAGE DOOR
GARAGE DOOR
Pump/Sump
9
Photo Rooms
1
Process Sink
INCINERATOR
VENT
4
HOLDING TANK
6
7
WASH SINKS
8
POT WASH
5
Commercial
Envelope Mfg. Co.
#900 Grand Blvd. D.P.
6:00 AM

Commercial Envelope

① sector car.

Leaching pool - residue ① samples.

Bubbling paddle - sample ②

#7 - Photo rm. vent. ③

vent #4 - sample

#5 - loading dock - liquid sample

sample → dye test

#6 → pipe → sample

#8 → residue

{ measure flow rate - in photo rm. } ⇒ atleast eight times/over the day

---

dye test photo process

Appendix 1.1-14

COUNTY OF SUFFOLK

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H.
COMMISSIONER

August 21, 1985

CERTIFIED MAIL R.R.R.

Commercial Envelope Manufacturing Company
900 Grand Boulevard
Deer Park, New York 11729

Attention: Mr. Ira Kristel, President

Gentlemen:

Laboratory analyses of samples removed from Commercial Envelope Manufacturing Company on July 7, 1985 indicate a number of serious potential health problems.

The area below the trash compactor in the loading dock contains liquid which is a combination of rain water and ink waste which spilled from the compactor. The loading dock area had previously been identified to Commercial Envelope as a source of discharge of toxic and hazardous materials. However, actions discussed by Commercial Envelope to control the disposal of ink waste and exposure of the compactor to the weather obviously have not been successful. Therefore, you are directed to have the material (liquid and sludge) tested and removed by an appropriate licensed scavenger.

A second area of concern was discovered close to the two leaching pools located on the east side of Commercial. These two leaching pools had previously been scavenged and filled to grade with sand by Chemical Pollution Control.

Approximately 4 - 5 feet west of the pool identified as Pool #2, the department uncovered a cache of liquid with a depth greater than 8 feet. This liquid was sampled and found to be contaminated with a long list of organic solvents - methylene chloride 180 ppb; 1,1,2 trichloroethylene 33 ppb; p-ethyltoluene 210 ppb; n-decane 190 ppb; n-undecane 130 ppb; cis-dichloroethylene 110 ppb; toluene 970 ppb; ethylbenzene 52 ppb; xylene(s) 500 ppb; 1,3,5 trimethylbenzene 190 ppb; 1,2,4 trimethylbenzene 430 ppb; p-diethylbenzene 98 ppb; 1,2,4,5 tetramethylbenzene 64 ppb.

This cache of unknown liquid must be uncovered for department inspection. The liquid and sludge contained in the cache must be removed by a New York State licensed industrial waste scavenger as soon as possible. The resulting hole must be filled in with clean fill to grade. The Suffolk County Department of Health Services must be notified 72 hours or three working days prior to any work being done so that one of our representatives will be present.

The contaminants in the cache represent unsatisfactory conditions and may constitute violations of the New York State Environmental Conservation Law and Article 12 of the Suffolk County Sanitary Code, which were promulgated to reduce groundwater contamination. Under the Suffolk County Sanitary Code you may be subject to the imposition of a $500 civil penalty each day that these conditions are allowed to remain.

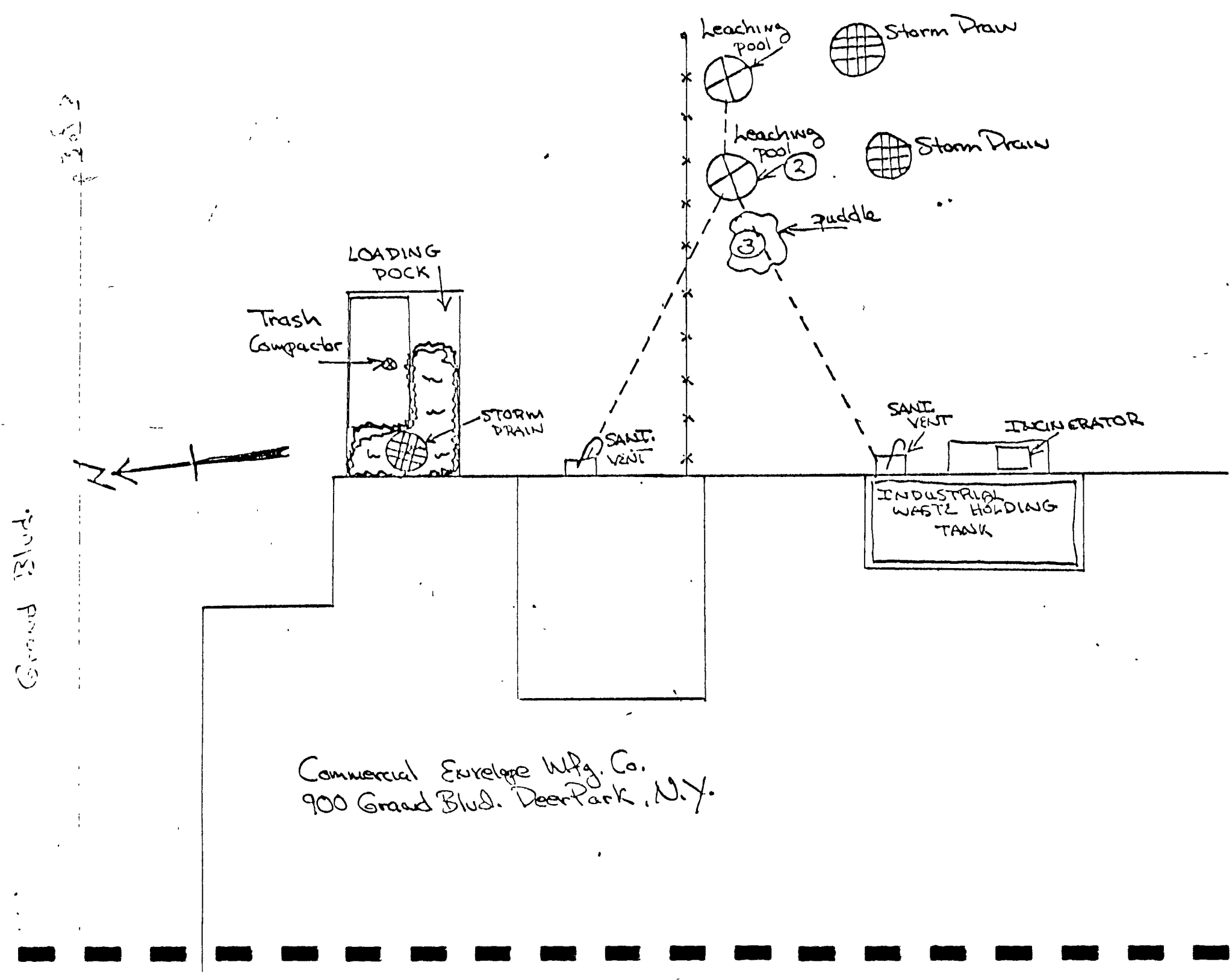
We wish to express our deep concern regarding these conditions, and it is most important that you act expeditiously to eliminate the aforementioned conditions.

Thank you in advance for your prompt attention in this matter.

Very truly yours,

Frank M. Randall
Supervisor
Inspectional Services

FMR/jhn



Commercial Envelope Mfg. Co.
900 Grand Blvd. DeerPark, N.Y.

IRA KRISTEL, PRES.

CHARGE: VIOLATION OF "STIPULATED AGREEMENT" PARA #'s 2, 3+4. *Appendix 1.1-15*

DATE	PAT PERRELLA	DAVE OBRIS	AL SANTORO	INCIDENT
JAN 13, 1981	✓			1 INFORMAL HEARING → CONSENT ORDER IW81-7 (SUBMIT ENG REPORT + TEST TANKS); CONSENT ORDER SIGNED ON 6/30/81 IN LIEU OF CANCELLING "FORMAL" OF 6...
APR 1, 1982	✓			2 FORMAL HEARING → (COMMISSIONERS ORDER - SUBMIT ENG. REPORT + TEST TANKS) HELD to ADDRESS VIOLATION OF CONSENT ORDER IW81-7
SEPT 13, 1982	✓			3 INFORMAL HEARING held: (SUBMIT ENG. REPORT + TEST TANKS)
OCT 8, 1982	✓			RESPONDENT ENTERED INTO "ORDER ON CONSENT" IW-82-49. RESPONDENTS
				VIOLATION OF CONSENT ORDER RESULTED IN SCHEDULING A FORMAL HEARING
JUNE 16, 1983	✓			"FORMAL HEARING" HELD: "STIPULATED AGREEMENT" ENTERED IN...
				1. BY JULY 16, 1983 COMPLY WITH PARA 2 OF IW 82-49 (SUBMITTAL OF
				REPORT ON SPILL CONTROL MEASURES) SUBMITTED ON JULY 1, 83
				(2) BY JULY 31, 1983 COMPLY WITH PARA #4 OF IW82-49 (SUBMITTAL
				OF ENG. REPORT ON INDUSTRIAL PROCESS AND ART 12 COMPLIANCE)
				(3) BY JULY 31, 1983 SUBMIT ART 12 APPLICATIONS (STORAGE)
				(4) BY JULY 16, 1983 REMOVE 3 SUBSURFACE TANKS OR TEST
				THEM.
				5 CIVIL PENALTY OF $1,500. SUSPEND $500. PAY $1000.
JULY 18, 1983				Paul Creditor LETTER: INFORMING OF COMPLIANCE WITH FORMAL
				HEARING "CONSENT ORDER" (STIPULATION AGREEMENT)
JULY 19, 1983				$1000 CHECK RECEIVED. CIVIL PENALTY OF FORMAL HEARING
JULY 31, 1983			(✓)	STIPULATION AGREEMENT VIOLATED: PARA # 2, +3
AUG 25 1983		(✓)		OBRIS INSPECTION: PARA # 2, 3 + 4 NOT COMPLIED WITH.
AUG 26, 1983		✓		" " " "
AUG 30, 1983				GORDON WATT MEMO: "INITIATE LEGAL ACTION"
AUG 31, 1983	✓			PERRELLA LETTER to COMMERCIAL ENV. + P CREDITOR - NOTICE OF V...
SEPT 7, 1983				JIM CORBIN LETTER to COMMERCIAL ENV. → CORRECTION OF DATE ON COMMIS... ORDER
SEPT 21, 1983		✓		OBRIS INSPECTION: TANKS FILLED IN.
OCT 11, 1983				Creditor letter to Perrella - request to reconvene
OCT 17, 1983	✓			Perrella letter to Creditor - The Dept [illegible] reschedule a new Hearing.

at [illegible] - Modify (amend) 4(a) [illegible] Para 4 of IW82-49 rather [illegible]

[illegible]

Appendix 1.1-16

Received from:
Suffolk Co. Dept. of
Health

P156

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS M.D., M.P.H.
COMMISSIONER

November 15, 1985

Gold and Watchel
780 Third Avenue, Suite 1401
New York, NY 10017

Attention: Steven Cohen, Esq.

Gentlemen:

This letter is in reverence to the proposed Order on Consent for Commercial Envelope.

In that regard, I am enclosing the Order that we have recently netogiated. Please make arrangements with Mr. Eisenbud of the Suffolk County District Attorney's office to formally execute same.

Very truly yours,

John V. Soderberg, P.E.
Environmental Enforcement

JVS:das

Attachment

cc: Fred Eisenbud, Esq.

15 HORSEBLOCK PLACE • FARMINGVILLE NEW YORK 11738 • (516) 451-4643

In the Matter of the Alleged Violation of Article 12 of the Suffolk County Sanitary Code by Commercial Envelope Mfg. Co. 900 Grand Boulevard Deer Park, NY 11729 Respondent.	ORDER ON CONSENT NO. IW 85-67 DATE: November 12, 1985

GENERAL PROVISIONS

This Department alleges that the above-named Respondent has failed to comply with the provisions of the Suffolk County Sanitary Code as specified below. Because of such alleged non-compliance, the above-named Respondent consents and agrees to the issuance of this Order on Consent, and agrees to be bound by the terms, conditions and provisions stated herein.

Respondent understands that by entering into the Order on Consent with the Department, he is affirmatively and voluntarily waiving his right to a formal adjudicatory proceeding with respect to the matters herein addressed. Although the Department will not pursue further enforcement action with respect to the specific alleged violations of law set forth below if the above-named Respondent enteres into this Order and abides by its terms, Respondent understands that the Department is not agreeing to forbearance from pursuing enforcement action regarding alleged violations not addressed by this Order. Moreover, Respondent understands that notwithstanding his execution of this Order on Consent, his failure to strictly comply with all of the terms, conditions and provisions herein contained will revive the Department's rights regarding the violations alleged as set forth below subject to a set-off for any penalties already paid pursuant to this Order on Consent. Furthermore, the Respondent is hereby advised that this Order on Consent, duly executed by the Respondent's agent and the Commissioner or his duly authorized representative has the force and effect of a Commissioner's Order, the violation of which is subject to penalties as provided in Section 218 of Article 2 of the Suffolk County Sanitary Code. Further, the Department recognizes that there is no admission of fault or guilt by the Respondent concerning any alleged violation of this Order on Consent.

A modification of any of the provisions of this Order on Consent may be obtained by a timely written request demonstrating good and sufficient cause of the change or extension requested. No modification of this Order shall be effective unless and until it is specifically set forth in writing by the Department.

SPECIFICATION OF ALLEGED VIOLATIONS

It is alleged that the Respondent above-named failed to comply with the following provisions of the Suffolk County Sanitary Code as indicated below:

1. On July 7, 1985 - discharge to surface of a toxic or hazardous material (organics - location 3 on Appendix A), in violation of Article 12, Section 1205.

2. As of August 21, 1985 - failure to reclaim, recover and clean up July 7, 1985 discharge (Item 1 above) in violation of Article 12, Section 1217(c).

SPECIFIC TERMS AND CONDITIONS

In satisfaction of the above-named Respondent's alleged violations of the Suffolk County Sanitary Code, the Respondent agrees to the entering and issuance of this Order of the Commissioner of the Suffolk County Department of Health Services, and the Respondent agrees to be bound by the terms and conditions following as well as by the above General Provisions.

LIQUID AND SLUDGE REMOVAL

1. By January 6, 1986 Respondent, as per Article 12, shall have the toxic or hazardous liquid and sludge accummulated in the loading dock area (identified on Appendix A) disposed of by an industrial waste scavenger, licensed by the New York State Department of Environmental Conservation, or by on site incineration if such is acceptable to the New York State Department of Environmental Conservation.

2. Respondent shall notify the Department at least two working days (Monday through Friday) in advance of any testing or disposal of the liquid and sludge referred to in Item 1.

3. By January 6, 1986 Respondent shall have the liquid and sludge below the area identified as (3) on Appendix A, disposed of in accordance with Items 1 and 2 above.

4. Immediately upon completion of Item 3 above, Respondent shall have the area identified as (3) on Appendix A filled to grade with clean sand.

5. By January 6, 1986 Respondent shall provide documentation or sample results that show the three (3) underground ink waste tanks identified as such on Appendix A have been properly abandoned in accordance with Article 12. If the Department finds abandonment was improperly done, Respondent shall remove

SPECIFIC TERMS AND CONDITIONS
(continued)

all material from the three tanks.

6. Immediately upon completion of Item 5 above, Respondent shall have the material so removed, if such is necessary, in accordance with the procedures listed in Items 1 and 2 above.

TOXIC OR HAZARDOUS CHEMICALS REGISTRATION

7. By Jan. 6, 1985 Respondent shall have submitted to the Department an approvable engineering report which details all toxic or hazardous materials being used or stored at the Respondent's facility.

8. The report specified in Item 7 above shall include approvable engineering plans together with application(s) for "Permit(s) to Construct an Above/Underground Toxic or Hazardous Liquid Storage Facility", to bring Respondent's facility into full compliance with Article 12 of the Suffolk County Sanitary Code.

9. The report specified in Item 7 above shall include a completed "Toxic Liquid Storage Registration Form", together with the appropriate registration fee.

10. Respondent shall complete construction in accordance with the approved permit to construct referred to in Item 8 above, on or before the expiration date of said permit.

11. Respondent shall notify the Department for the purpose of inspecting the completed construction referred to in Item 10 above.

12. Any questions concerning Article 12 or testing methods should be addressed to Mr. Vincent Frisina, P.E., of this Department at telephone number (516) 451-4649.

WASTE INCINERATOR

13. Immediately, Respondent shall take all necessary steps to insure that Respondent's industrial waste holding tank and incinerator comply with all applicable state regulations.

GROUNDWATER QUALITY STUDY

14. By December 2, 1985 Respondent shall submit a written proposal to this Department for determining the quality of groundwater which exists at 900 Grand Boulevard in Deer Park, New York, hereinafter known as the site, and downstream in the direction of groundwater flow from the aforementioned site.

SPECIFIC TERMS AND CONDITIONS
(continued)

15. The above proposal shall provide for the installation of groundwater monitoring wells. These wells shall be installed so as to intersect the groundwater and allow sampling of same for organic solvents and metals.

16. Within sixty (60) days of Department's written approval of the aforementioned proposal, all monitoring wells are to be installed in accordance with the proposal as approved by the Department, and groundwater samples, from these wells, submitted to a New York State certified laboratory. Initial samples are to be analyzed for organic solvents and metals.

17. Within one hundred twenty (120) days of Department's written approval of the Respondent's proposal, the Respondent shall have submitted its finalized report on the quality and direction of groundwater flow at the site.

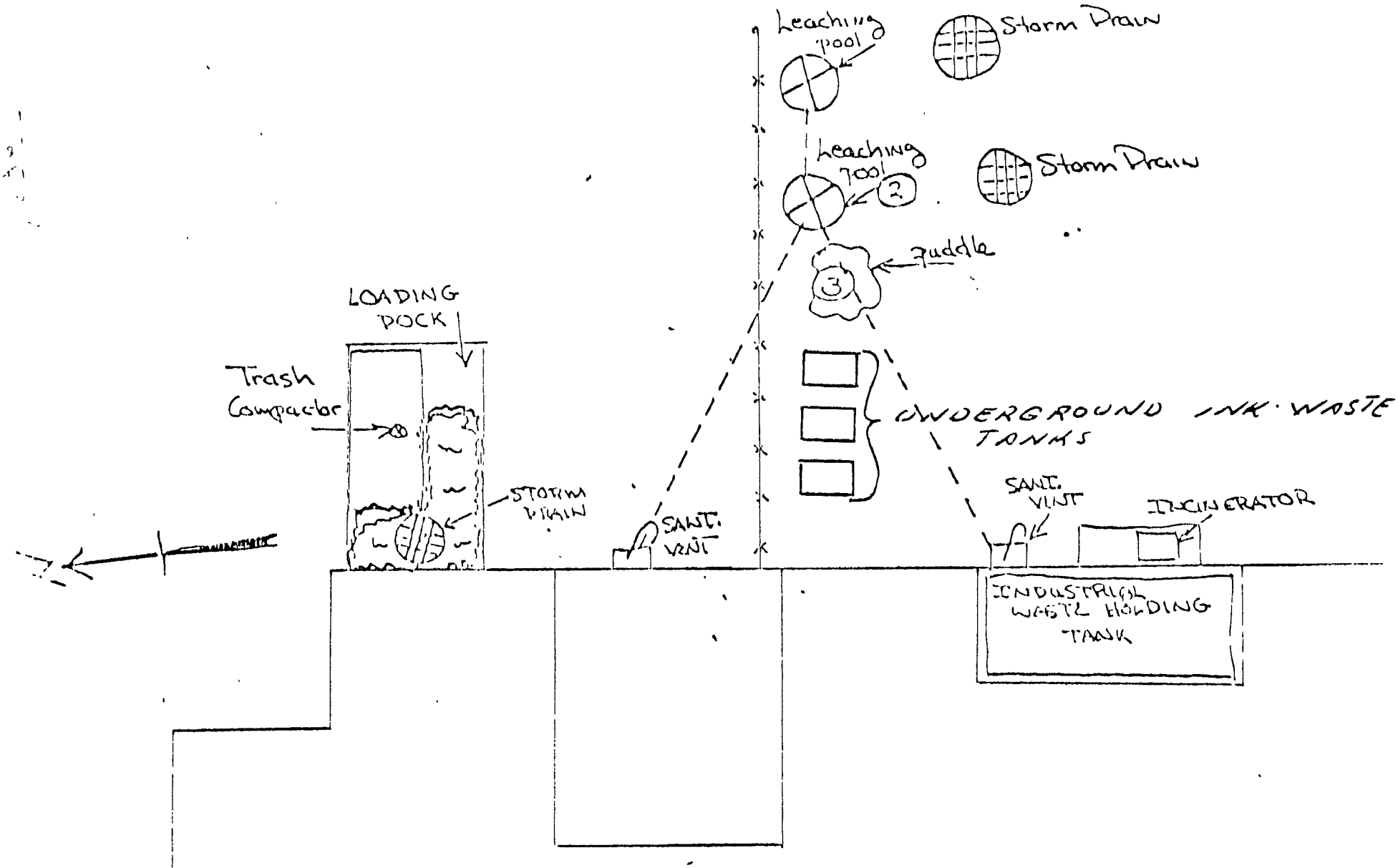
18. The report referred to in Item 17 above shall contain all laboratory analysis results of water samples taken from the monitoring wells, and the absolute groundwater elevation above mean sea level of each well.

19. If a plume of contamination attributable to site activities is found to exist, then the Respondent shall submit a proposal for defining the vertical and horizontal extent of this plume and its chemical constituents.

20. The above proposal and report shall be prepared by qualified groundwater hydrogeologist who has experience in performing an investigation for determining the existence of contamination in the groundwater.

21. The aforementioned proposal and report, as well as any questions concerning it, should be addressed to Mr. James Maloney, P.E., Suffolk County Department of Health Services, 15 Horseblock Place, Farmingville, New York 11738.

22. The Respondent agrees to permit the Department representatives access to the wells for the purpose of obtaining water samples, and to aid the Department, if necessary, in obtaining water from the wells upon reasonable notice.



Commercial Envelope Mfg. Co.
900 Grand Blvd. Deer Park, N.Y.

APPENDIX # A

PAGE 1 OF 1

ORDER ON CONSENT # _____

Appendix 1.1-17

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, NY 11738
(516) 451-4633

Received from: Suffolk Co. Dept. of Health

Received from: Suffolk Co. Dept. of Health

NAME OF FACILITY		OWNER/ OFFICER		PAGE 1 OF
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT		TEL.
PLANT ADDRESS	900 Grand Blvd	VILLAGE Deer Park	TOWN Bab. N.Y.	ZIP
MAILING ADDRESS				

DATE Oct 1, 85	TIME AM	ORIG.	PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

Pardon the delay on replys to questions on PO - Industrial Waste Incinerator.

① As per conversation with Mr. Gary Miller - representative of H&H, who filled out applications. The unit fires the waste into the flame thru a nozzle.

Therefore it would appear that Commercial requires a Permit as an industrial waste treatment facility. Part 374?

My most recent inspection of the facility Sept. 24, 85, revealed a quantity of cinder like material (clinkers) deposited (thrown) on the surface below the unit. I had some suspicions that this material might be from the incinerator unit. In conversations with Mr. Miller of H&H I mentioned the possibility of solid waste from the unit when it is cleaned. He mentioned that he had observed some "black" clinker like material extracted from the unit, in his presence, when he was on site to inspect the unit. I mentioned that this material is an industrial waste and should be handled in an appropriate manner until its constituents can be ascertained. We agreed that at least one TCLP test should be run on the material prior to that it should be containerized.

David Oberg

LOCATION 1 2 0 0 | FACILITY 0 4 2 8 | EMISSION POINT 0 0 0 1 | I

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

COPIES
WHITE - ORIGINAL
GREEN - DIVISION OF AIR
WHITE - REGIONAL OFFICE
PINK - FIELD REP
YELLOW - APPLICANT

A ADD
C CHANGE
D DELETE

READ INSTRUCTIONS CONTAINED IN FORM 76-11-12 BEFORE ANSWERING ANY QUESTION

PROCESS, EXHAUST OR VENTILATION SYSTEM

APPLICATION FOR PERMIT TO CONSTRUCT OR CERTIFICATE TO OPERATE

SECTION A

1 NAME OF OWNER/FIRM: Commercial Envelope Mfg. Co., Inc.

2 NUMBER AND STREET ADDRESS: 900 Grand Boulevard

3 CITY - TOWN - VILLAGE: Deer Park | 4 STATE: NY | 5 ZIP: 11729

6 OWNER CLASSIFICATION: A ☐ COMMERCIAL C ☐ UTILITY F ☐ MUNICIPAL I ☐ RESIDENTIAL B ☒ INDUSTRIAL D ☐ FEDERAL G ☐ EDUC INST J ☐ OTHER E ☐ STATE H ☐ HOSPITAL

7 NAME & TITLE OF OWNERS REPRESENTATIVE: Leroy Brannigan, Purchasing Agent | 8 TELEPHONE: (516) 242-2500

9 NAME OF AUTHORIZED AGENT: Holzmacher, McLendon and Murrell, P.C. | 10 TELEPHONE: (516) 752-9060

11 NUMBER AND STREET ADDRESS: 125 Baylis Road, Suite 140

12 CITY - TOWN - VILLAGE: Melville | 13 STATE: NY | 14 ZIP: 11747

15 NAME OF P.E. OR ARCHITECT PREPARING APPLICATION: John J. Molloy | 16 NYS P.E. OR ARCHITECT LICENSE NO: 055141 | 17 TELEPHONE: (516) 752-9060

18 SIGNATURE OF OWNERS REPRESENTATIVE OR AGENT WHEN APPLYING FOR A PERMIT TO CONSTRUCT

19 FACILITY NAME (IF DIFFERENT FROM OWNER/FIRM): Commercial Envelope Mfg

20 FACILITY LOCATION (NUMBER AND STREET ADDRESS): 900 Grand Boulevard

21 CITY - TOWN - VILLAGE: Deer Park | 22 ZIP: 11729

23 BUILDING NAME OR NUMBER: Main Building | 24 FLOOR NAME OR NUMBER: Ground Floor, Outdoor - East

25 START UP DATE: MO 7 / YR 83 | 26 DRAWING NUMBERS OF PLANS SUBMITTED: DWG 00001

27 PERMIT TO CONSTRUCT: A ☐ NEW SOURCE B ☐ MODIFICATION

28 CERTIFICATE TO OPERATE: A ☐ NEW SOURCE C ☒ EXISTING SOURCE B ☐ MODIFICATION

SECTION B

29 EMISSION POINT ID	30 GROUND ELEVATION (FT)	31 HEIGHT ABOVE STRUCTURES (FT)	32 STACK HEIGHT (FT)	33 INSIDE DIMENSIONS (IN)	34 EXIT TEMP (°F)	35 EXIT VELOCITY (FT/SEC)	36 EXIT FLOW RATE (ACFM)
0 0 0 1	80	10	35	24	1800	8.3	1550

37 SOURCE CODE	38 HRS/DAY	39 DAYS/YR	40 % OPERATION BY SEASON Winter	Spring	Summer	Fall
8190	24	250	25	25	25	25

41 DESCRIBE PROCESS OR UNIT

1 This emission point is for a GAS FIRED Liquid Waste Disposal System
See enclosed sheet entitled "Process Description"

EMISSION CONTROL EQUIPMENT I D	CONTROL TYPE	MANUFACTURER'S NAME AND MODEL NUMBER	DISPOSAL METHOD	DATE INSTALLED MONTH / YEAR	USEFUL LIFE
42	43	44	45	46 /	47
48	49	50	51	52 /	53

SECTION D

CALCULATIONS

See enclosed "Estimate of Emissions" sheet.

Received from: Suffolk Co. Dept. of Health

Appendix 1.1-18

SECTION F

	CONTAMINANT NAME	CAS NUMBER	INPUT OR PRODUCTION	UNIT	ENV RATING	EMISSIONS ACTUAL	UNIT	HOW DET	EMISSIONS PERMISSIBLE	% CONTROL EFFIC'CY	HOURLY EMISSIONS (LBS/HR) ERP	HOURLY EMISSIONS (LBS/HR) ACTUAL	ANNUAL EMISSIONS (LBS/) ACTUAL	ANNUAL EMISSIONS (LBS/) 10^3	ANNUAL EMISSIONS (LBS/) PERMI
54	Lead Oxide (as Pb)	55 0 7 4 3 9 - 9 2 - 1	56 ~~10~~ 10^{-3}	57	58 C	59 1.0 x 10^{-3}	60 1	61 6	62 .001	63 0	64 1.0×10^{-3}	65 1.0 x 10^{-3}	66 6.0	67 0	68 6
69	Silver Salts (as Ag)	70 N Y 0 7 5 - 0 0 - 1	71 9.3 ~~10~~ 10^{-4}	72	73 C	74 9.3 x 10^{-4}	75 1	76 6	77 0.001	78 0	79 9.3×10^{-4}	80 9.3 x 10^{-4}	81 5.6	82 0	83 5.
84	Copper Salts (as Cu)	85 0 7 4 4 0 - 5 0 - 8	86 1.04x ~~10~~ 10^{-2}	87	88 C	89 1.04x 10^{-2}	90 1	91 6	92 0.010	93 0	94 1.04×10^{-2}	95 1.04x 10^{-2}	96 6.25	97 1	98 1
99	Iron Salts (as Fe)	100 N Y 0 7 5 - 0 0 - 1	101 6.44x ~~10~~ 10^{-2}	102	103 C	104 6.44x 10^{-2}	105 1	106 6	107 0.064	108 0	109 6.44×10^{-2}	110 6.44x 10^{-2}	111 3.9	112 2	113
114	Particulates	115 N Y 0 7 5 - 0 0 - 1	116	117	118 C	119 1.31	120 1	121 6	122 1.31	123 0	124 1.31	125 1.31	126 7.9	127 3	128 7
129	Hydrogen Chloride	130 0 7 6 4 7 - 0 1 - 0	131 ~~10~~	132	133 C	134 2.3 x 10^{-4}	135 1	136 6	137 0.000	138 0	139 2.3×10^{-4}	140 2.3 x 10^{-4}	141 1.38	142 0	143 1.

SECTION G

SOLID FUEL TYPE	SOLID FUEL TONS/YR	SOLID FUEL %S	OIL TYPE	OIL THOUSANDS OF GALLONS/YR	OIL %S	GAS TYPE	GAS THOUSANDS OF CF/YR	GAS BTU/CF	APPLICABLE RULE	APPLICABLE RULE
144	145	146	147	148	149	150 52	151 9000	152 1050	153 212	154

Upon completion of construction sign the statement listed below and forward to the appropriate field representative

THE PROCESS, EXHAUST OR VENTILATION SYSTEM HAS BEEN CONSTRUCTED AND WILL BE OPERATED IN ACCORDANCE WITH STATED SPECIFICATIONS AND IN CONFORMANCE WITH ALL PROVISIONS OF EXISTING REGULATIONS

155 SIGNATURE OF AUTHORIZED REPRESENTATIVE OR AGENT: x [signature] — DATE: 3/29/

AGENCY USE ONLY

156 LOCATION CODE	157 FACILITY ID NO	158 UTM (E)	159 UTM (N)	160 SIC NUMBER	161 DATE APPL RECEIVED	162 DATE APPL REVIEWED	163 REVIEWED BY
4 2 0 0 0	4 4 2 8	6 4 4 0 5 1 3 . 0	2 6 4 2		4/16/85	5/28/85	Jam

PERMIT TO CONSTRUCT

164 DATE ISSUED	165 EXPIRATION DATE	166 SIGNATURE OF APPROVAL	167 FEE
/ /	/ /		

168
1 DEVIATION FROM APPROVED APPLICATION SHALL VOID THIS PERMIT
2 THIS IS NOT A CERTIFICATE TO OPERATE
3 TESTS AND/OR ADDITIONAL EMISSION CONTROL EQUIPMENT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A CERTIFICATE TO OPERATE

RECOMMENDED ACTION RE: C.O.

169 DATE ISSUED	170 EXPIRATION DATE	171 SIGNATURE OF APPROVAL	172 FEE
6/28/85	6/17/90	[signature]	0

173
1 [X] INSPECTED BY David Story DATE 6/17/85
2 [ ] INSPECTION DISCLOSED DIFFERENCES AS BUILT VS PERMIT, CHANGES INDICATED ON FORM
3 [X] ISSUE CERTIFICATE TO OPERATE FOR SOURCE AS BUILT
4 [ ] APPLICATION FOR C O DENIED ____ DATE ____ INITIALED

174 SPECIAL CONDITIONS:

1 None	2
3	4
5	6
7	8

SC K COUNTY DEPARTMENT OF HEALTH SER S
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

pg 2

NAME OF FACILITY Commercial Envelope Mfg Co Inc	OWNER/ OFFICER IRA CRYSTAL		PAGE 1 OF
COMPANY NAME	CONTACT PAUL CREDITOR (ATTY)		TEL. 242-2500
ADDRESS 900 GRAND BLVD	VILLAGE DEER PARK	TOWN BABYLON	ZIP 11729
MAILING ADDRESS			

DATE	TIME	ORIG	PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
24 Aug 84	1 00 p.m.								

(1) VIOLATION ARTICLE 12 SECTION 1207 Permit to operate 10,000 gallon in ground gasoline tank (unleaded) on the west side of the building is NOT REGISTERED with the county.

(2) VIOLATION ARTICLE 12 SECTION 1215
DRUM STORAGE AREA on the west side of has not been registered with the county. DRUMS ARE NOT STORED IN A PROPER MANNER SO AS to permit proper inspection by county.

(3) Any "sludge" removed from the incinerator unit on the east side of the building must be drumed & hauled by a NY STATE lic. SCAVENGER, NOT placed on the ground area.

(4) Facility has not as of this date submitted an engineering report as per Consent order.

(5) VIOLATION ARTICLE 10 SECTION 1006
the following units are operating in violation of article 10 section 1006; operating without certificate to operate.
① WASHING MACHINE
② Cyclone
③ BALER

(6) VIOLATION ARTICLE 12 SECTION 1207
2000 GALLON WASTE holding tank (ABOVE GROUND) on the east side of the building is NOT REGISTERED with the county.

7 VIOLATION ARTICLE 12 SECTION 1215 DRUM STORAGE ON WEST SIDE OF BUILDING OF ≅ 50-60 x 55 GAL DRUMS ROBERTSON ARLSON INKS.

8 VIOLATION ARTICLE 12 SECTION 1215 TRACTOR TRAILER filled with ≅ 75-100 x 55 gallon drums. UNABLE to determine entire contents. (Some labeled "61-CR", Cellulose Nitrate Solution "INKS";

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, NY 11738
(516) 451-4633

Received from Suffolk Co. Dept. of Health 9/28/84

Commercial Countertop Mfg Co. Inc	OWNER/ OFFICER Ira Crystal	PAGE 1 OF
	CONTACT	TEL. 242-2500
200 Grand Blvd	VILLAGE Deer Park TOWN Babylon	ZIP 11729

Aug 84	TIME 1 pm	ORIG.	PERIODIC	(RE.)	(WASTE)	NO WASTE	H&H	SEWAGE SYSTEM PUBLIC PRIVATE

4000 GAL & ≅ 2000 GAL holding tanks for "glue" on the E side of building (ABOVE GROUND) NOT REGISTERED with County, & NOT in COMPLIANCE with ARTICLE 12. (1215, 1207)

Sinks (2x) in DARK ROOM AREA are NOT discharging to 2000 GALLON WASTE TANK on the EAST SIDE of the building. TEST (using green dye) conducted. 1 bottle of powdered dye used, did not appear in tank, observed for ≅ 2 hrs.

Overflowing "pool" on the EAST SIDE of the building, material (body white in color & draining to A STORM DRAIN. (odor is foul) Presently will be called A VIOLATION of Article 2 section VB; discharge of deleterious materials.

Charles Johnson

Appendix 1.1-20

SUFFOLK COUNTY DEPARTMENT OF HEALTH S. IC
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

Received from:
Suffolk Co. Dept. of Health

NAME OF FACILITY		OWNER/ OFFICER Mr. Ira Crystal	PAGE 1 OF ___
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT Mr. Steve Cohen	TEL
PLANT ADDRESS	Grand Blvd.	VILLAGE Deer Park TOWN Babylon NY.	ZIP
MAILING ADDRESS			

DATE Sept 23, 85	TIME 1:00 PM	ORIG PERIODIC RE	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

(1) New Building (Warehouse)

SW Rear Area.

1 x 55 gal. drum SAE 40 W
1 x 55 gal drum DTE Oil Heavy medium
2 x 55 gal drum Ethylene glycol.

North End New Bld.

Printing Area. →
1 x 55 gal. drum Multilith "blanket wash" contains perc.
1 x 55 gal. garbage can "waste"
1 x 55 gal. drum waste ink.
2 x 35 gal drums Perrachem (cleaners)

(2) Old Bld

Eastside → 8 x 55 gal drums "empty like oil drums"

8 x 55 gal. drums open top closed unknown material.

1 x 55 gal "dextron" hydraulic oil

West side 5 x 55 gal drums partially full like oil.

18-234. 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N Y 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER Mr. Ira Crystal	PAGE 2 OF ___
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT Mr. Steve Cohen	TEL
PLANT ADDRESS	Grand Blvd.	VILLAGE Deer Park TOWN Babylon	ZIP
MAILING ADDRESS			

DATE Sept 23, 85	TIME 1 00 PM	ORIG PERIODIC RE	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE

Outside West Side

1) Tractor trailer → approx. 30-50 x 55 gal unknown waste drums.

2) Flamable storage Bld → 17 x 55 gal. "flamable liquid"
outside Bld. 8 x 55 gal. " " " "

3) 2 x 10,000 LG tanks "gasoline" unleaded.

Boiler House

1) 11 x 55 gal drums "motor oil", "Kerosene" partially full, to full, on grd. outside.

2) 2 x glue holding tanks 2000 gal. + 4000 gal.

3) liquid discharge to sump SW corner discharged required SPDES Permit.

4) 7 x 55 gal. drums. hydraulic oil, DTE heavy med.,

5) middle of floor, 4" pipe into floor, pink liquid in pipe?

Ink Pot Wash machine - may require Art 12, spill containment.

Middle Main Print Area. approx 50 x 55 gal. drums. unknown material.

18-234 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER Mr. Ira Crystal	PAGE 3 OF ___
COMPANY NAME Commercial Envelope Mfg Corp.		CONTACT Mr. Steve Gabow	TEL
PLANT ADDRESS Grand Blvd.	VILLAGE Deer Park TOWN Babylon		ZIP
MAILING ADDRESS			

DATE Sept. 23	TIME 10 AM/PM	ORIG PERIODIC RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

Ink Waste Holding tank - register with SCDHS.

Out Side East Side Bld.

(1) hidden pool. → remove liquid

(2) area under compactor - liquid filled, test + scavenge.

(3) 3x old industrial waste holding tanks.

NE Corner Inside Bld.

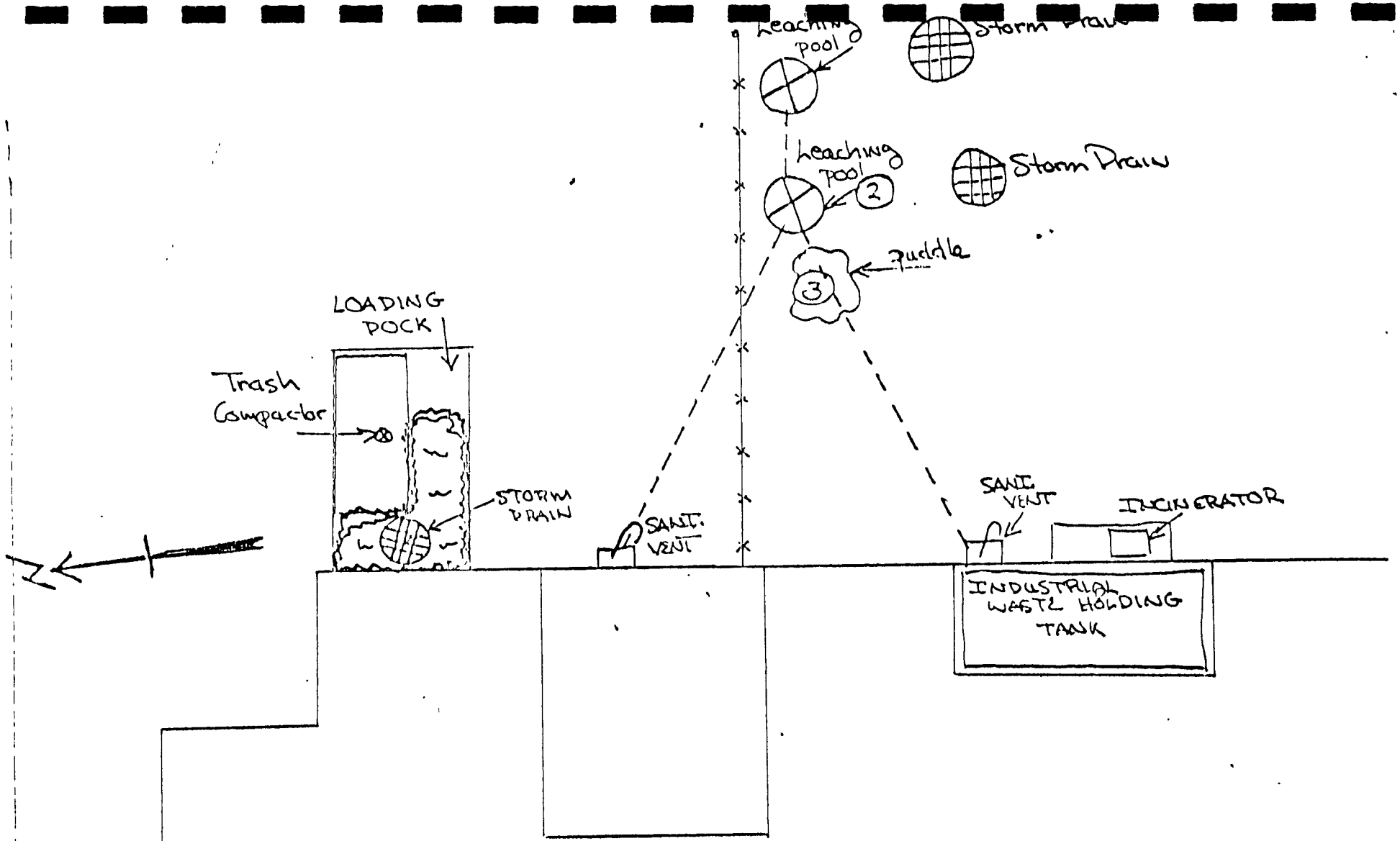
approx 60 x 55 gal drums waste ink

Examination witnessed by:

Steven Cohen

David Obrey PHS

18-234 9/84



Grand Blvd.

Commercial Envelope Mfg. Co.
900 Grand Blvd. DeerPark, N.Y.

File

Appendix 1.1-21

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER	PAGE 1 OF 4
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT	TEL
PLANT ADDRESS	900 ~~Grand Blvd~~	VILLAGE Deer Park TOWN Babylon NY	ZIP
MAILING ADDRESS			

DATE	TIME	ORIG	PERIODIC	RE	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC	PRIVATE
Oct 3, 85	~~AM~~/PM									

I

Items for Consent Order

A. New Building

1. Rear of Bld. South West corner, drum storage area of lube oil + anti freeze; register + comply with provisions of SCSC Article 12.
2. Front of Bld. North end, printing area, drum storage in area of waste WK + press wash; register + comply with Provisions of SCSC Article 12.

In general this Bld has sufficient quantity of drums to require a Permitted Drum storage area.

B. Old Building

1. Numerous drums containing, "Dextron" hydrolic oil + lube oil scattered thru out the building. There is sufficient quantity of this particular material to require a centralized Permitted Drum storage area, which will comply with all the provisions of SCSC Article 12.

2. Outside - Southwest side of Bld. a trailer truck body which contains numerous, full, 55 gal. drums of unknown material; register + comply with SCSC Article 12.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER		PAGE 2 OF 4
COMPANY NAME	Commercial Envelope Mfg. Corp.	CONTACT		TEL
PLANT ADDRESS	900 Grand Blvd.	VILLAGE Deer Park	TOWN Bab. N.Y.	ZIP
MAILING ADDRESS				

DATE Oct. 3, 85	TIME AM/PM	ORIG PERIODIC RE	WASTE	NO WASTE H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

B. Old Building

3. Attached drum storage shed, middle West side & Bld., Register + comply with SCSC Article 12.

4. 2x 10,000 gal. petroleum storage tanks, register + comply with SCSC Article 12.

5. Boiler Room - West side, 2x above ground glue holding tanks, register + comply with SCSC Article 12.

6. Printing area - central floor area - ink pot washing machine, register + comply with SCSC Article 12.

7. Printing area - central floor area - ink drums storage, register + comply with SCSC Article 12.

8. East side of printing area, 2000 gal. waste ink storage tank, register + comply with SCSC Article 12.

9. Northeast corner - next to loading dock, drum storage of waste + raw ink, register + comply with SCSC Article 12.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N Y 11738
(516) 451-4633

NAME OF FACILITY		OWNER/ OFFICER		PAGE 3 OF 4
COMPANY NAME	Commercial Envelope Mfg Corp	CONTACT		TEL
PLANT ADDRESS	900 Grand Blvd.	VILLAGE Deer Park	TOWN Bab. N.Y.	ZIP
MAILING ADDRESS				

DATE Oct. 3, 85	TIME AM/PM	ORIG PERIODIC RE	WASTE	NO WASTE H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

C. Geaeral

1) Industrial waste holding tank + incinerator operation may fall under ~~under~~ ~~from~~ require compliance with provisions of 6NYCRR, parts 371-73, written inquiries must be made to NYSDEC + compliance with any pertinent regulations must be achieved.

2) Boiler Room- pit in South west corner containing active discharge of water, in writing explain process, and expected compliance with appropriate State or County Environmental regulations.

3) Round hole in center of Boiler Rm. by inspection contained red oil like substance, in writing explain structure.

D. Clean Up.

1) Remove deleterious material + liquid from loading dock ramp area, as previously directed by SCDHS.

2) Remove toxic + hazardous material from underground pit + fill in with clean fill as previously directed by SCDHS.

18-234 9/84

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
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NAME OF FACILITY		OWNER/ OFFICER		PAGE 4 OF 4
COMPANY NAME	Commercial Envelope Mfg Corp.	CONTACT		TEL
PLANT ADDRESS	900 Grand Blvd.	VILLAGE Deer Park	TOWN Babylon N.Y.	ZIP
MAILING ADDRESS				

DATE Oct. 3 85	TIME AM/PM	ORIG PERIODIC RE	WASTE	NO WASTE H&H	SEWAGE SYSTEM	PUBLIC PRIVATE

D. Clean Up.

3) Remove three (3) underground INK waste tanks, located on the East side of the Old Bld. as previously directed by SCDHS.

4) Conduct Ground Water Study.

David Oberg PHS

Appendix 1.1-22

Received from:
Suffolk Co. Dept. of
Health

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. [X] Show to whom, date and address of delivery
2. [ ] Restricted Delivery

3 Article Addressed to
Commercial Envelope Mfg. Corp.
900 Grand Boulevard
Deer Park, New York 11729

4 Type of Service
- [ ] Registered
- [X] Certified
- [ ] Express Mail
- [ ] Insured
- [ ] COD

Article Number
P 623 150 220

Always obtain signature of addressee or agent and DATE DELIVERED

5 Signature – Addressee
X

6 Signature – Agent
X

7 Date of Delivery

8 Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

P 623 150 220

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Commercial Envelope	
Street and No 900 Grand Blvd.	
P.O., State and ZIP Code Deer Park, NY 11729	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 9/26/85	

* U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

COUNTY OF SUFFOLK

I p 2 3

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

DAVID HARRIS, M.D., M.P.H
COMMISSIONER

CERTIFIED MAIL-R.R.R.
P 623 150 220

SECOND NOTICE

September 26, 1985

Commercial Envelope Manufacturing Corp.
900 Grand Boulevard
Deer Park, New York 11729

Attention: Mr. Ira Kristal, President

Re: Pump Out of Contaminated Liquid

Gentlemen:

On July 7, 1985, samples taken from the underground cache of liquid on the east side of your building were collected by a representative of this department. The laboratory analysis performed by this department revealed that the liquid contained the following:

Methylene chloride	180 ppb	Ethylbenzene	52 ppb
1,1,2 Trichloroethylene	33 ppb	Xylene(s)	500 ppb
p-Ethyltoluene	210 ppb	1,3,5 Trimethylbenzene	190 ppb
n-Undecane	130 ppb	1,2,4 Trimethylbenzene	430 ppb
n-Decane	190 ppb	p-Diethylbenzene	98 ppb
cis-Dichloroethylene	110 ppb	1,2,4,5 Tetramethylbenzene	64 ppb
Toluene	970 ppb		

Due to the toxic nature of this discharge, you are again directed to have the aforementioned liquid immediately pumped and sludge removed by an industrial waste scavenger. The resulting hole must be filled in with clean fill to grade. A list of approved scavengers may be obtained by calling the Office of Solid Waste of the New York State Department of Environmental Conservation, telephone number 516-751-7900. Please note: That each day these contaminants are allowed to leach out of the pool, you may be subject to a $500 civil penalty under the Suffolk County Sanitary Code.

(continued . . .)

You are directed to notify this office at least three (3) weekdays (Monday through Friday) prior to the pumping of these pools so that an inspector may witness this operation. Please note that the hiring of a cesspool pumping service which is not licensed to haul toxic industrial waste is a violation of State and County law and may subject both you and the non-licensed hauler to civil liability (fines). It is your responsibility to determine if the scavenger is licensed to haul industrial waste.

You should also note that scavenger fees for removal of toxic materials may vary between scavengers. You may wish to secure written estimates for your clean out. However, this is not to be construed that the department will accept tardiness in your getting the contaminated leaching facility cleaned out.

If you have any questions, please call me at 516-451-4628.

Very truly yours,

Frank M. Randall
Supervisor
Inspectional Services

FMR/lc
Attachment

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

Appendix 1.1-23

COMMUNICATIONS RECORD FORM

Distribution: ( ) Comm. Envelope #752103, ( ) ____
( ) ____, ( ) ____
( ) Author

Person Contacted: Jim P[illegible] Date: 1/17/86

Phone Number: 516 451 4633 Title: ____

Affiliation: SCDHS Type of Contact: Phone

Address: ____ Person Making Contact: Gary

Communications Summary: I called to ask Jim to pass message to Frank R[illegible] re: Wed and Thursday re: site visits to Comm. Envelope and Circuitron around

Comm Envelope 1/23 0900

Circuitron 1/22 1130

Jim says he will tell Frank

Rehy [illegible] should call Frank on Tuesday

Then Jim explained that there was an oil spill at plant of Comm Envelope this week. 9300 gallons of fuel oil were mistakenly pumped down an observation well on the site! SCDHS is on top of the problem, discuss to them

(see over for additional space)

Signature: Gary

Appendix 1.2-1

Appendix 1.3-1
1 of 13

LONG ISLAND WATER RESOURCES
BULLETIN NUMBER 1

RESULTS OF SUBSURFACE EXPLORATION IN THE MID-ISLAND AREA OF WESTERN SUFFOLK COUNTY, LONG ISLAND, NEW YORK

BY
JULIAN SOREN
U. S. GEOLOGICAL SURVEY

WITH A SECTION ON
POTENTIAL DEVELOPMENT OF GROUNDWATER
IN THE MID-ISLAND AREA

BY
PHILIP COHEN
U. S. GEOLOGICAL SURVEY

PREPARED BY

U. S. GEOLOGICAL SURVEY

IN COOPERATION WITH

SUFFOLK COUNTY LEGISLATURE
SUFFOLK COUNTY WATER AUTHORITY

PUBLISHED BY

SUFFOLK COUNTY WATER AUTHORITY

1971

2915

GEOHYDROLOGY

GEOLOGY AND AQUIFERS

Unconsolidated deposits, ranging in age from Late Cretaceous to Pleistocene, underlie the mid-island area. These deposits contain several major aquifers and constitute the ground-water reservoir. Thin surficial Holocene deposits of soil and some swamp accumulations occur from place to place, but these are of little significance to the ground-water reservoir. The unconsolidated deposits rest unconformably on crystalline bedrock consisting of Precambrian (?) schist and gneiss which is considered to be the bottom of the ground-water reservoir on Long Island.

The unconsolidated deposits, from the bedrock upward, include the Lloyd Sand Member and clay member of the Raritan Formation of Late Cretaceous age, the Matawan Group-Magothy Formation, undifferentiated, also of Late Cretaceous age, and glacial deposits of Pleistocene age. The major aquifers in the area are the deposits of sand and gravel in the Pleistocene and the Matawan-Magothy strata. The test drilling described previously was carried out mostly to the depth of the upper part of the clay member. Therefore, the drilling served to determine the base of the Matawan-Magothy deposits. The drilling also served to obtain information on the configuration of the top of the Matawan-Magothy deposits, which were deeply eroded during Tertiary and, probably, Pleistocene time.

BEDROCK OF THE PRECAMBRIAN (?) SYSTEM

The Precambrian (?) gneiss and schist which underlies Long Island is hard and dense. Virtually all the water in these rocks is found in joints, faults, and foliation planes. Because these openings are usually tight and poorly connected, the bedrock is practically impermeable, especially by comparison with the overlying unconsolidated formations. No wells are known to tap bedrock in the mid-island area.

The bedrock was eroded to a peneplain prior to the deposition of the Cretaceous strata. In the mid-island area, the bedrock surface dips gently southeast at an average slope of about 65 feet per mile (about two-thirds of a degree), and its altitude ranges from about 800 feet below sea level in the northwestern corner of the area to about 1,600 feet below sea level in the southeastern part (pl. 2).

3513

UPPER CRETACEOUS SERIES

Raritan Formation

Lloyd Sand Member

The Lloyd Sand Member of the Raritan Formation comprises the Lloyd aquifer on Long Island. This unit consists mostly of beds and lenses of light- to medium-gray sand and gravelly sand, commonly containing small to large amounts of interstitial clay and silt, that are intercalated with beds and lenses of light- to dark-gray clay, silt, and clayey and silty sand.

Only two drill holes are known to have penetrated the Lloyd in the mid-island area. One hole partly penetrated the unit at the Pilgrim State Hospital, in Brentwood. The second hole, which is in the village of Lake Ronkonkoma, and which was one of the test holes drilled as part of this study, fully penetrated the unit. A log of the test hole describing lithology of the Lloyd is shown in table 1, S33379.

The surface of the Lloyd is roughly parallel to the bedrock surface. The Lloyd surface dips from an altitude of about 550 feet below sea level in the northwestern part of the area, to an altitude of about 1,250 feet below sea level in the southeastern part (pl. 2), and the unit's thickness ranges from about 260 feet to 360 feet from northwest to southeast, respectively. Plate 2 shows contours on the Lloyd surface. Plate 2 also shows contours on the bedrock surface; therefore, the Lloyd's thickness, in any part of the area, can be estimated by computing the local difference between the altitudes of the bedrock and Lloyd surfaces.

The Lloyd aquifer is moderately permeable. Its average horizontal permeability has been estimated by Lusczynski and Swarzenski (1966, p. 19), Isbister (1966, p. 20), and Soren (in press) to range between 400 and 500 gpd per sq ft (gallons per day per square foot) in Queens and Nassau Counties, west of the mid-island area. Warren and others (1968, p. 102) estimated the Lloyd's horizontal permeability to be 165 gpd per sq ft at the Brookhaven National Laboratory, about 12 miles east of the mid-island area. The section of Lloyd penetrated by the test well near Lake Ronkonkoma was fairly sandy and gravelly (table 1, S33379), and at this site the average horizontal permeability of the Lloyd probably is considerably more than 500 gpd per sq ft. Wells tapping the Lloyd in other parts of Long Island have been pumped at rates of as much as 1,600 gpm (gallons per minute), and the specific capacities of these wells (pumpage, in gallons per minute, divided by drawdown, in feet) have been reported to range from 3 to 40 gpm per foot of drawdown.

At present, there is no pumpage from the Lloyd aquifer in the mid-island area, mainly because of the great depth of the aquifer, and because more permeable aquifers are found at shallower depths. In addition to being at a greater depth, the water from the Lloyd commonly has undesirably high concentrations of iron.

Clay Member

The clay member of the Raritan Formation (commonly referred to as the Raritan clay) completely covers the underlying Lloyd aquifer in the mid-island area, and confines water in that aquifer. The Raritan clay consists mostly of beds and lenses of light- to dark-gray clay, silt, and clayey and silty fine sand (table 1). Thin to thick sandy beds commonly occur in the unit from place to place, but these beds do not have great lateral extent. Laminae and thin beds of lignite and pyrite and disseminated particles of these substances are common in the clay beds of the unit. The thickness of the Raritan clay increases to the southeast, and ranges from about 150 feet in the northwestern part of the mid-island area to about 200 feet in the southeastern part.

The surface of the Raritan clay is roughly parallel to that of the underlying Lloyd Sand Member. The altitude of the surface of the Raritan clay ranges from about 300 feet below sea level in the northwestern part of the mid-island area, to about 1,050 feet below sea level in the southeastern part (pl. 3).

Matawan Group-Magothy Formation, Undifferentiated

The Matawan Group-Magothy Formation, undifferentiated, comprises the Magothy aquifer of Long Island. Deposits in this unit consist of beds and lenses of light-gray fine to coarse sand, containing traces to large amounts of interstitial clay and silt, intercalated with thin to thick beds and lenses of light- to dark-gray clay, silt, and clayey and silty sand (table 1). The clay and silt beds commonly contain laminae and thin beds of lignite. Disseminated lignite and pyrite also are common in the sand beds of the aquifer. Gravelly coarse sand is commonly found in the basal part of the aquifer. This coarse zone ranges in thickness from 100 to 150 feet west of the mid-island area to 150 to 200 feet in the mid-island area. The basal zone also commonly contains abundant interstitial clay and silt and many thin to thick beds and lenses of clay, silt, and clayey and silty sand.

The surface of the Magothy aquifer (pl. 4) is not planar as are the surfaces of the underlying units. The Magothy surface was deeply eroded during Tertiary time, and probably was considerably eroded in Pleistocene time. Consequently, the depth to the Magothy aquifer and the aquifer's thickness cannot be predicted as accurately as the depths and thicknesses of the underlying units. Many control points in addition to those already known are needed to accurately map the upper surface of the Magothy aquifer.

The highly irregular character of the surface of the Magothy aquifer is shown in plate 4. The upper surface of the aquifer ranges in altitude from as high as about 200 feet above sea level to as low as about 500 feet below sea level. The Magothy was completely removed by erosion in a buried valley near the South Huntington area, and in that area upper Pleistocene deposits lie directly on the Raritan clay. This buried valley was called the "Huntington buried valley" by Lubke (1964, pl. 3), and as mapped by Lubke, the valley extended about 2-1/2 miles south of the Northern State Parkway.

source of the rock materials in the outwash deposits is manifold. As the glaciers moved southward to Long Island, they plucked the bedrock and soils of the surfaces they slid over. Rock materials were incorporated into the ice in contact zones and were also pushed along the glacial front. As the ice melted in late Pleistocene time, the various rock materials were carried away by broad coalescing streams and sheets of water. Consequently, the outwash deposits are stratified, and because of the varied materials carried by the glacier, these deposits consist of a heterogeneous suite of rock types. The great diversity of rock and mineral suites in the Pleistocene deposits, along with the chemically unstable (easily decomposed) rocks and minerals, commonly facilitates differentiation of glacial from the Cretaceous deposits on Long Island.

Outwash deposits underlie the plain in the mid-island area south of the Ronkonkoma terminal moraine, where the major source of glacial deposition was material from the Ronkonkoma ice advance. A readvance of the glacial front followed recession of the Ronkonkoma ice front and resulted in the formation of the Harbor Hill terminal moraine. Lakes were formed in depressions and valleys between the Ronkonkoma and Harbor Hill terminal moraines, and clayey materials were deposited in these lakes. The intermorainal areas also contain recessional deposits of outwash and ground moraine (see the following section, "Ground-Moraine Deposits") from the Ronkonkoma and Harbor Hill deglaciations, and these materials buried the clayey lake deposits.

The outwash deposits are thickest in the buried valleys and thinnest where the Cretaceous surface is closest to land surface (pl. 5). These deposits generally extend below the water table, and are a major source of ground water. Outwash deposits comprise most of the so-called upper glacial aquifer of Long Island, and because these deposits of sand and gravel contain virtually no interstitial clay and silt, the upper glacial aquifer is the most permeable aquifer on Long Island. The estimated average horizontal permeability of the outwash deposits is about 1,000 to 1,500 gpd per sq ft (Lusczynski and Swarzenski, 1966, p. 17; and Soren, in press). Warren and others (1968, p. 75) computed the horizontal permeability of outwash to be about 1,300 gpd per sq ft at the Brookhaven National Laboratory, east of the mid-island area. A horizontal permeability for outwash as high as about 2,500 gpd per sq ft has been reported in Nassau County, west of the project area (Isbister, 1966, p. 29).

Public-supply and other high-capacity wells screened in glacial outwash on Long Island have yielded as much as 1,700 gpm, and reported specific capacities of such wells range from less than 10 gpm per foot of drawdown to as much as about 200 gpm per foot of drawdown; however, the specific capacities range mostly from 50 to 100 gpm per foot of drawdown. (See section "Yields of Individual Wells.")

the shorelines, the direction of flow is reversed, and ground-water movement is upward from the deeper aquifers toward the surface. Thus, because of the character of the flow system, under natural conditions virtually all the recharge to the Magothy and Lloyd aquifers in western Suffolk County originated in the mid-island area, and all of that recharge ultimately discharged from the ground-water system near the shorelines.

The movement of ground water through Long Island's aquifers in the horizontal direction is generally more rapid than movement in the vertical direction because of the occurrence of interbedded fine- and coarse-grained layers, and because the largest dimensions of unevenly shaped particles in the individual layers tend to be oriented horizontally. Approximate rates of ground-water movement can be computed from hydraulic gradients and estimated coefficients of permeability and porosities of the aquifers. In 1968, water in the upper glacial aquifers in the project area was moving horizontally at rates from less than 0.5 foot per day at points distant from centers of pumping, to hundreds of feet per day near the screens of pumping wells. At the same time, water in the Magothy aquifer was moving horizontally at rates from less than 0.2 foot per day at points distant from pumping, to hundreds of feet per day near the screens of pumping wells.

HYDRAULIC INTERCONNECTION OF AQUIFERS

The aquifers of Long Island are hydraulically interconnected. Layers of clay and silt within an aquifer or between aquifers serve to confine water below them, but they do not completely prevent the vertical movement of water through them. Ground water moves downward readily through coarse outwash deposits in the upper glacial aquifer. Vertical movement of water through the Magothy aquifer is impeded by beds and lenses of clay and silt. Because the clay and silt strata in the Magothy are not continuous, some water may move around lenses of this material in addition to moving slowly through the fine-grained strata.

The contact between the upper glacial and Magothy aquifers is not regular either in attitude or in composition of the contact surfaces. Glacial deposits in buried valleys are in lateral contact with truncated sandy beds in the Magothy. In the buried valleys water can laterally enter the Magothy at great depth directly from the glacial deposits, rather than the water having to move vertically to the same depth through less permeable Magothy beds. In the Huntington buried valley, glacial deposits extend completely through the Magothy aquifer to the underlying Raritan clay. (See plate 4.) In addition to the good hydraulic continuity between the upper glacial and Magothy aquifers in the buried valleys, good hydraulic continuity occurs between the aquifers outside the buried valleys where glacial sand and gravel deposits lie directly on Magothy sand beds. Thus, a fairly good hydraulic connection exists between the upper glacial and Magothy aquifers over large parts of the mid-island area, and the configuration of the piezometric surface of the Magothy aquifer is generally similar to that of the water table. However, in the mid-island area hydraulic heads in the Magothy are lower than those in the upper glacial aquifer because of the downward component of ground-water movement in the area.

The thick areally persistent Raritan clay that lies between the Magothy and Lloyd aquifers impedes but does not prevent downward movement of ground water into the Lloyd aquifer, and water in the Lloyd is tightly confined between the Raritan clay and bedrock. Downward leakage into the bedrock is negligible.

Figures 2 and 3 show hydrographs of wells screened in the upper glacial aquifer and the Magothy aquifer at the test-drilling sites in Brentwood and Hauppauge. At both sites, the heads in the deepest wells in the Magothy aquifer are about 2.5 to 3 feet lower than the heads in the shallowest wells in the upper glacial aquifer. The loss of head downward reflects the downward movement of ground water in the mid-island area. The hydrographs in figures 2 and 3 show that the heads in these two aquifers in the project area decrease at a fairly uniform rate with increasing depth. In addition, water-level fluctuations in the two groups of wells were very similar. Both of these facts, the uniform decrease in head and the similar water-level fluctuations, reflect the high degree of hydraulic interconnection between the upper glacial and Magothy aquifers.

The average vertical permeability of the Magothy aquifer is only poorly known. Estimates range from less than 1 to about 30 gpd per sq ft. Assuming that it averages about 5 gpd per sq ft in the mid-island area, the computed amount of downward ground-water movement through the Magothy aquifer in the vicinity of the ground-water divide in 1968 was about 0.4 mgd (million gallons per day) per square mile, and the estimated velocity of the downward movement was about 0.006 foot per day.

Because of the low permeability of the Raritan clay, the hydraulic-head loss across this unit is very much larger than the head loss across a comparable thickness of the Magothy and upper glacial aquifers. At the easternmost test site in the village of Lake Ronkonkoma, wells were screened near the base of the Magothy and near the top of the Lloyd aquifers (pl. 5, section A-A', S33379-80). In 1968, the head near the base of the Magothy aquifer (about 45.5 feet above sea level) was about 11.5 feet higher than the head in the Lloyd aquifer (about 34 feet above sea level). Head losses across the Raritan clay at localities east and west of the Lake Ronkonkoma area differ considerably. At Upton, about 12 miles east of the mid-island area, the head loss across the clay was about 6 feet in 1968; and at Plainview (in Nassau County), about 3 miles southwest of Melville, the head loss across the clay was about 42 feet. The differences in head loss from place to place are largely a result of differences in the vertical permeability and thickness of the Raritan clay.

The head in the Lloyd aquifer at Lake Ronkonkoma in 1968 (about 34 feet above sea level) was higher than either of the heads in the Lloyd at Upton (about 30.5 feet above sea level) and at the Suffolk-Nassau boundary (about 27.5 feet above sea level). The head in the Lloyd at Terryville, about 7 miles northeast of the Ronkonkoma area was about 21 feet above sea level in 1968, and it was 19 feet above sea level at Fire Island State Park in 1968, about 13 miles to the southwest. These data suggest that water in the Lloyd aquifer is moving radially from the Lake Ronkonkoma area. The estimated rate of horizontal movement of water in the Lloyd aquifer in the project area in 1968, was on the order of 0.1 foot per day.

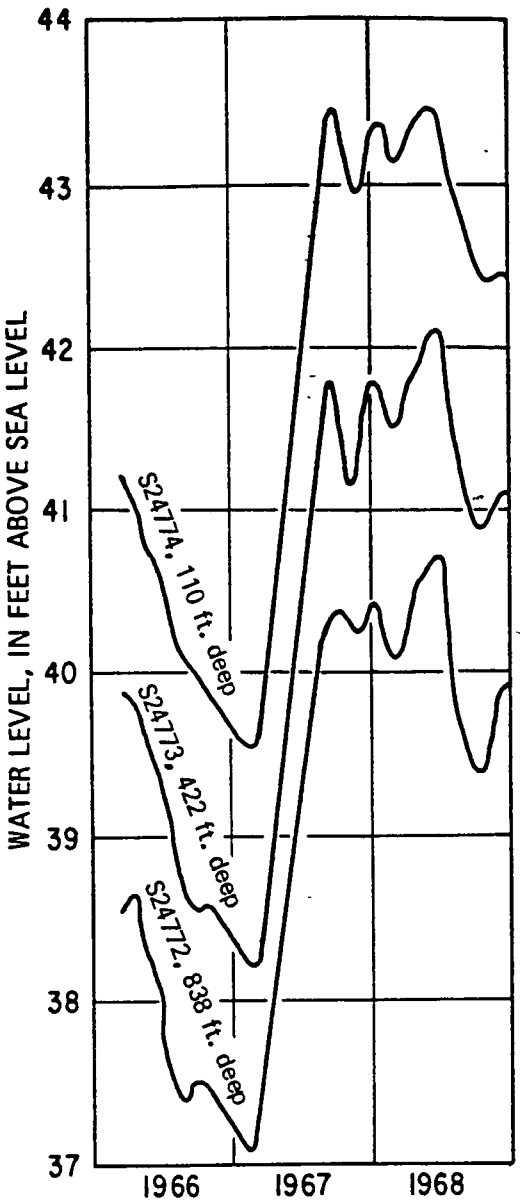


Figure 2.--Fluctuations of water levels in wells screened in the upper glacial aquifer and the Magothy aquifer at Brentwood, N. Y.

FLUCTUATIONS OF GROUND-WATER LEVELS

Fluctuations of water levels in the wells of the mid-island area reflect local variations in recharge to and discharge from the aquifers tapped by the wells. Therefore, changes in ground-water levels afford an insight into many aspects of the ground-water system. Furthermore, the information on water-level fluctuations can be used to help assess the impact of urbanization on the natural hydrologic system.

9613

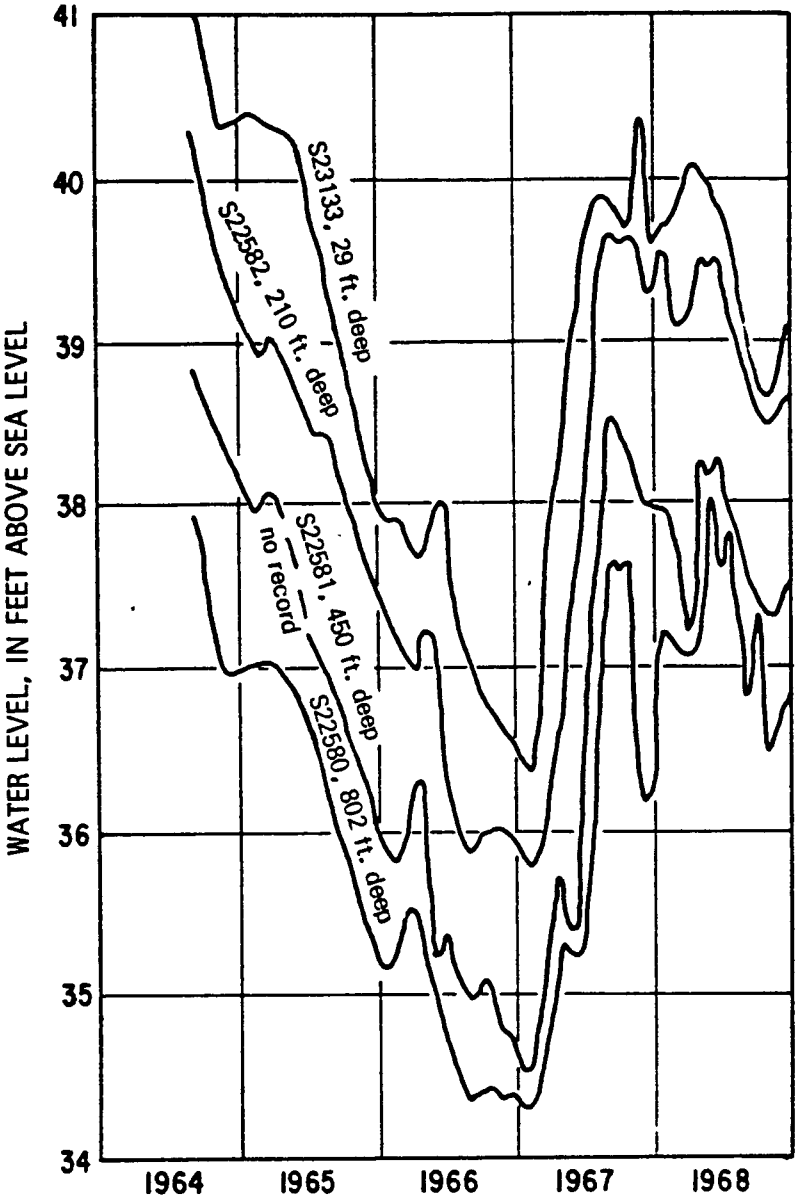
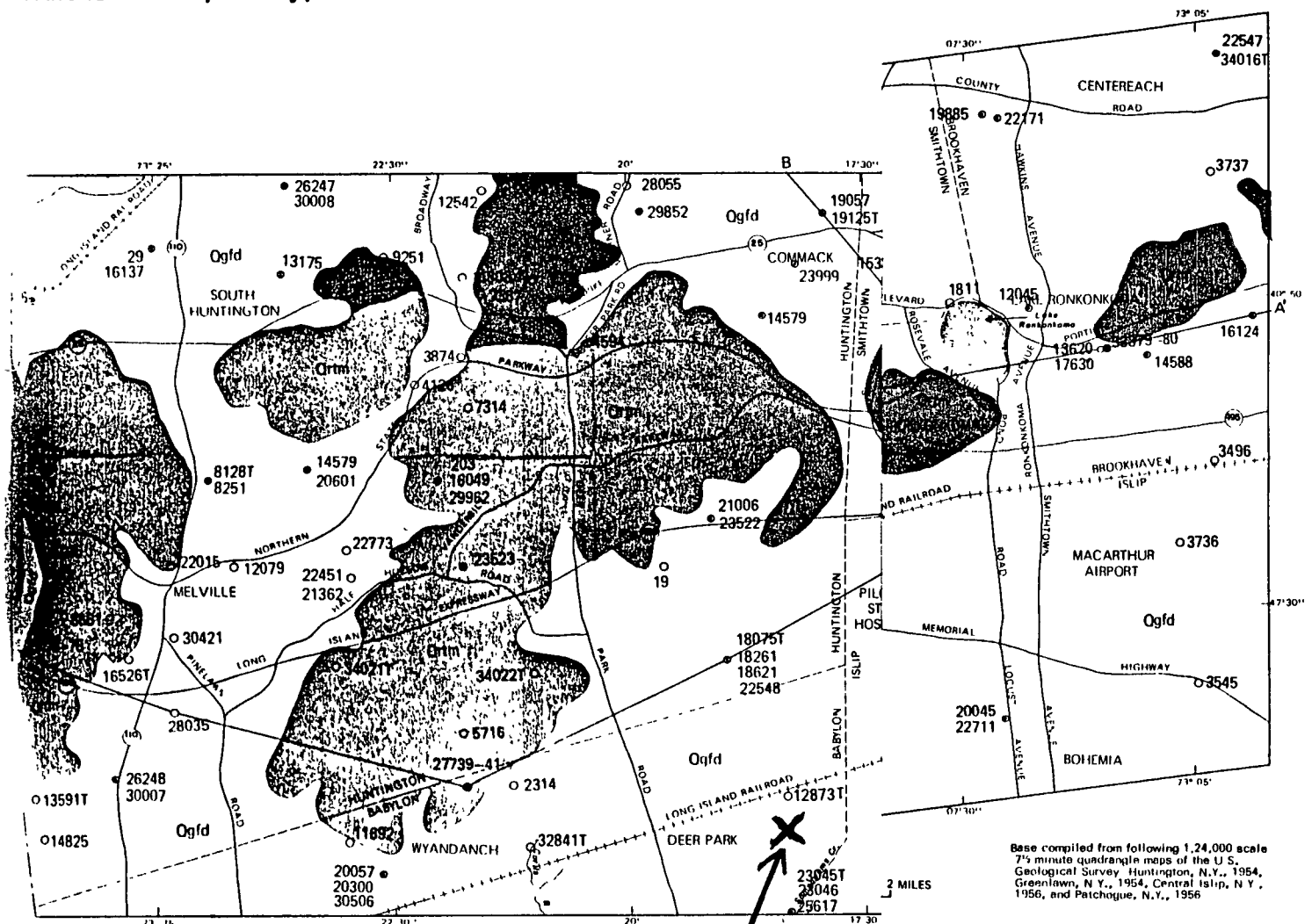


Figure 3.--Fluctuations of water levels in wells screened in the upper glacial aquifer and the Magothy aquifer at Hauppauge, N. Y.

Under natural conditions and in relatively undeveloped areas of Long Island, the water table fluctuates over a range of several feet during the year. Under such conditions, the water table has a rhythmic seasonal pattern; the lowest levels are in late autumn and highest levels are in early spring. This pattern of decline and recovery of the water table reflects the greatest losses of water through evapotranspiration during the growing season and the least such losses between growing seasons. The hydrologic systems in such undeveloped areas are in equilibrium, with inflow balancing outflow. However, if large amounts of water are continually pumped out of a ground-water system, the water table declines until equilibrium is reestablished at a lower level, reflecting a loss of ground water from storage and decreased subsurface and stream outflow from the system.

Prepared by
TATES DEPARTMENT OF THE INTERIOR
LOGICAL SURVEY, Albany, N.Y.

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 1
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



Surficial geology adapted largely from Lubke, 1964, and Plubowski and Kantrowitz 1964

Base compiled from following 1:24,000 scale 7½ minute quadrangle maps of the U.S. Geological Survey: Huntington, N.Y., 1954, Greenlawn, N.Y., 1954, Central Islip, N.Y., 1956, and Patchogue, N.Y., 1956

EXPLANATION

PLEISTOCENE

Ohtm
Harbor Hill terminal moraine
Crudely stratified sand and gravel, some boulders and till

Ronkonkoma terminal moraine
Crudely stratified sand and gravel, some boulders and till

Ground moraine and retreatal outwash
Till, some boulders, and some stratified sand and gravel

Ogfd
Glaciofluvial deposits
stratified sand and gravel in melt-water spillways and outwash plains

• 29852
Public-supply well
Number is well-identification number. Prefix "S" is omitted

• 29776–78
Test-drilling site and test well numbers

○ 21009
Miscellaneous well (observation, industrial, or institutional) and number

A ——— A'
Geologic section (see plate 5)

Geologic contact

Comercial Envelope Mfg. Co. Inc.

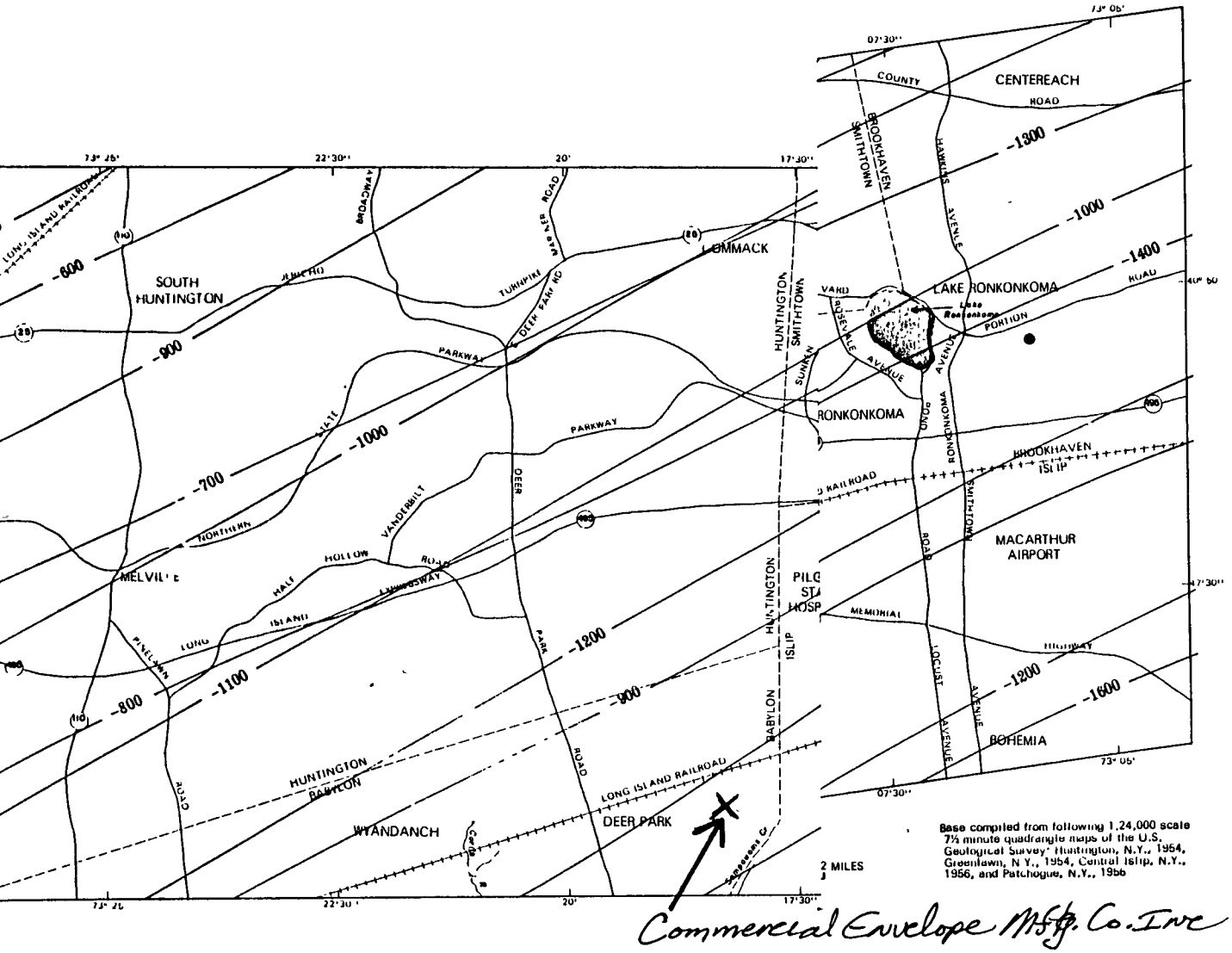
MAP OF MID-ISLAND AREA SHOWING .S

Prepared by

ES DEPARTMENT OF THE INTERIOR
GICAL SURVEY, Albany, N.Y.

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 2

PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



Base compiled from following 1:24,000 scale 7½ minute quadrangle maps of the U.S. Geological Survey: Huntington, N.Y., 1954, Greenlawn, N.Y., 1954, Central Islip, N.Y., 1956, and Patchogue, N.Y., 1956

EXPLANATION

—— -1300 ——

Bedrock contour

Shows altitude of bedrock surface. Contour interval, 100 feet. Datum is mean sea level. (Control based largely on data outside area.)

—— -700 ——

Structure contour

Shows altitude on top of Lloyd Sand Member. Contour interval, 100 feet. Datum is mean sea level. (Control based largely on data outside area.)

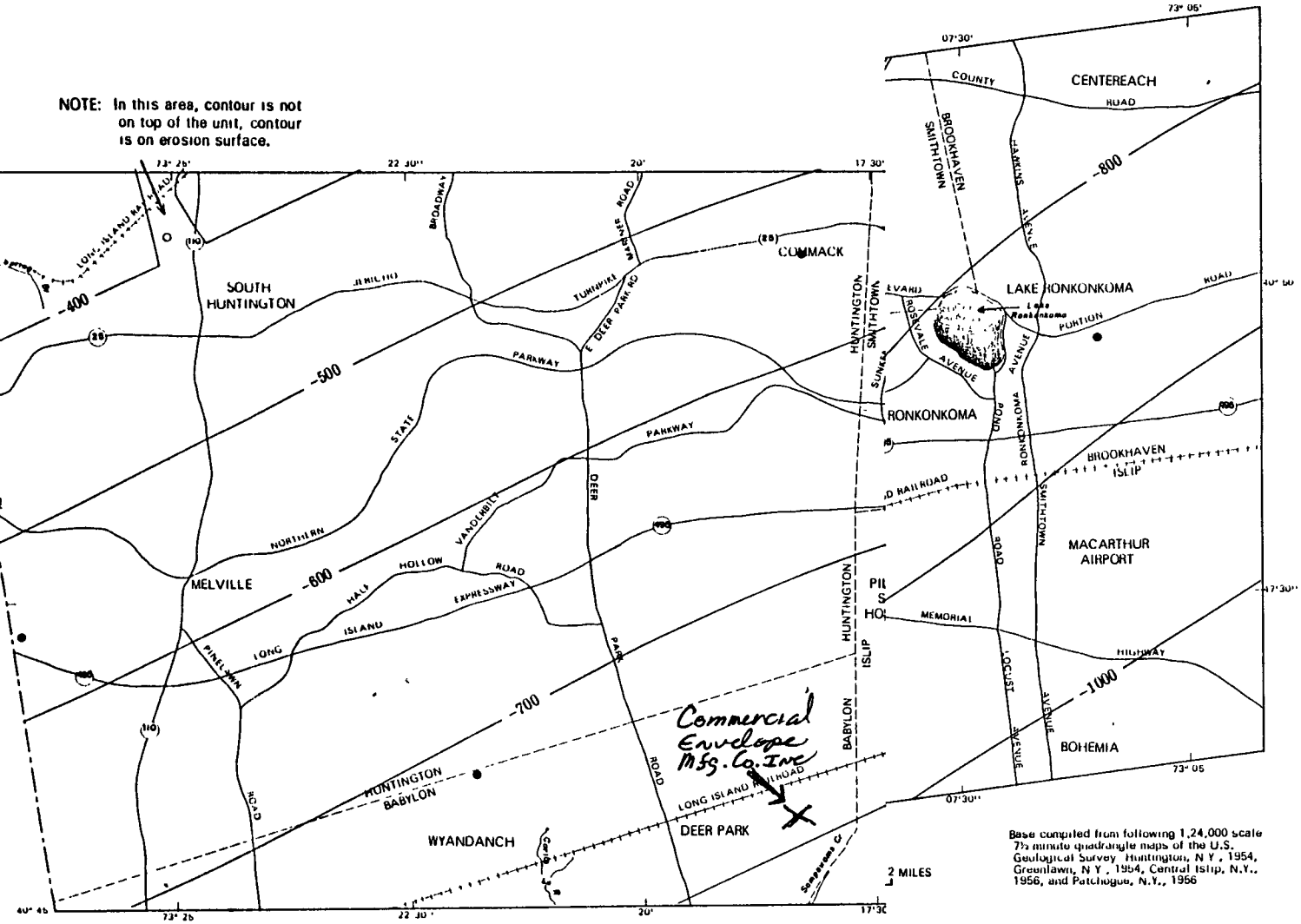
● Well that penetrates the Lloyd aquifer and bedrock

MAP OF MID-ISLAND AREA SHOWING CONTOURS O OF THE LLOYD SAND MEMBER OF THE RARITAN FORMATION

Prepared by
STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY, Albany, N.Y.

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 3
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY

NOTE: In this area, contour is not on top of the unit, contour is on erosion surface.



Base compiled from following 1:24,000 scale 7½ minute quadrangle maps of the U.S. Geological Survey, Huntington, N.Y., 1954, Greenlawn, N.Y., 1954, Central Islip, N.Y., 1956, and Patchogue, N.Y., 1956

EXPLANATION

-600
Structure contour
Shows altitude of top of clay member of Raritan Formation. Contour interval, 100 feet. Datum is mean sea level. (Control based in part on data outside area.)

Well that penetrates clay member surface

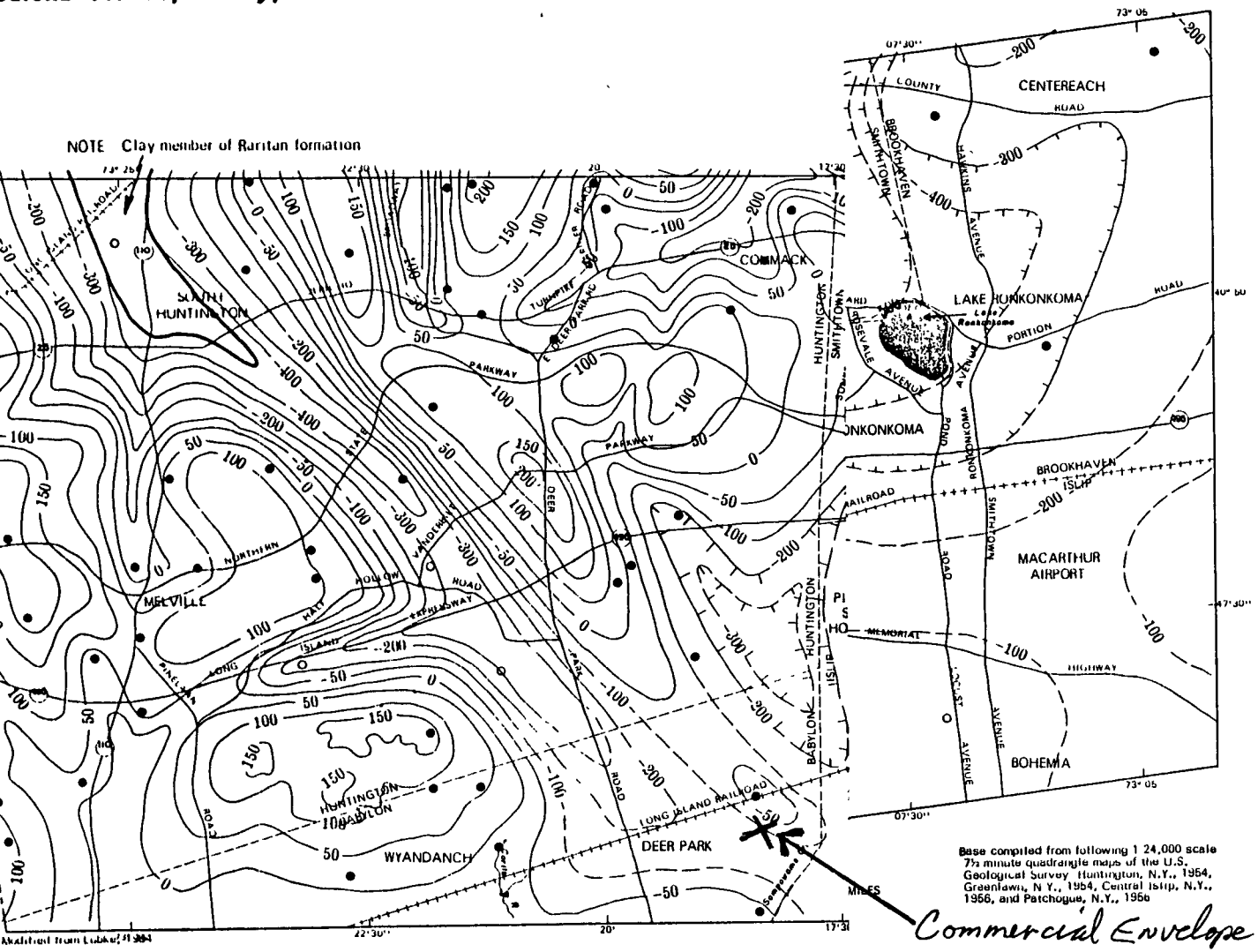
Deep well that does not penetrate clay member surface

MAP OF MID-ISLAND AREA SHOWING CONTOURS OF FORMATION

12 9/17

Prepared by
ITES DEPARTMENT OF THE INTERIOR
OGICAL SURVEY, Albany, N.Y.

LONG ISLAND WATER RESOURCES BULLETIN NUMBER 1 PLATE 4
PUBLISHED BY SUFFOLK COUNTY WATER AUTHORITY



EXPLANATION

——— -100 — — —
Approximate contour on Matawan Group-Magothy Formation, undifferentiated surface
Shows altitude of erosion surface developed on Matawan Group-Magothy Formation undifferentiated. Dashed where inferred Contour interval, 50 and 100 feet. Datum is mean sea level.

●
Well that penetrates Matawan Group-Magothy Formation, undifferentiated surface

○
Deep well that does not penetrate Matawan Group-Magothy Formation, undifferentiated surface

———
Approximate geologic contact

Commercial Envelope Mfg. Co. Inc

P OF MID-ISLAND AREA SHOWING CONTOURS ON THE 9N, UNDIFFERENTIATED

Appendix 1.3-2
10 of 25

ORIGINAL—TO COMMISSION

County SUFFOLK

WS A-6143

Well No. S 46830 (on preliminary report)

State of New York
Department of Conservation
Division of Water Resources

LOG

Ground Surf., El.....ft. above

^
.....ft.
v

Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner SUFFOLK COUNTY WATER AUTHORITY

Address POND ROAD, OAKDALE

Location of well INDUSTRY COURT, DEER PARK

Depth of well below surface 654' - 7¼" feet

Depth to ground water from surface 70' feet

CASINGS:

Diameter	20 in.	in.	in.	in.
Length	535 ft.	ft.	ft.	ft.
Sealing	50' CEMENT			
Casings removed	NONE			

SCREENS: Make COOK 316 SS Openings #70 SLOT

Diameter	10" LD in.	in.	in.	in.
Length	80' SLOT ft.	ft.	ft.	ft.
Depth to top from top of casing	651' 5¾" ft.			

PUMPING TEST: Date 10/16 Test or permanent pump? TEST

Duration of Test ..... days 2.25 hours

Maximum Discharge 2411 gallons per minute

Static level prior to test 70 ft. in. below top of casing

Level during Max. Pumping 113 ft. in. below top of casing

Maximum Drawdown 43 ft.

Approx. time of return to normal level after cessation of pumping ..... hours 10 minutes

PUMP INSTALLED:

Type ..... Make BY OTHERS Model No. TLC

Motive power ELEC Make ..... H.P. 75

Capacity 1200 g.p.m. against ..... ft. of discharge head

No. bowls or stages .... ft. of total head

DROP LINE:		SUCTION LINE:	
Diameter	12 in.	16	in.
Length	90 ft.	9'9"	ft.

Method of Drilling (Rotary, cable tool, etc.) REVERSE ROTARY

Use of Water PUBLIC SUPPLY

Work started 1/10/73 Completed 10/24/73

Date 10/25/73 Driller STRATA WELL CORP.

License No. 1000

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

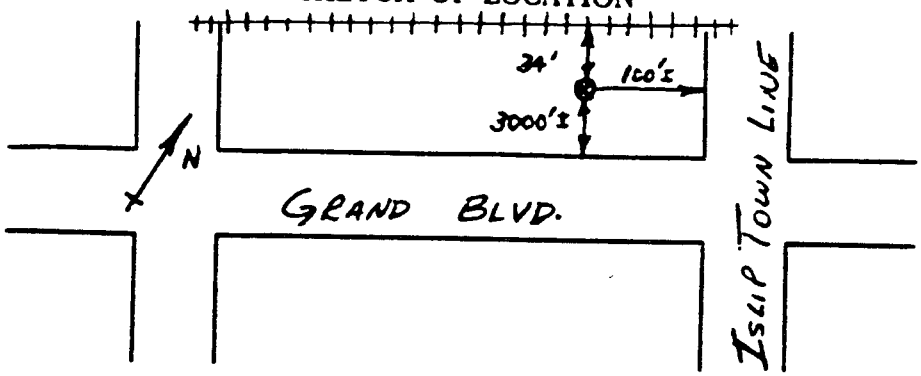
SEE ATTACHED

ENVIRO... DEC

OCT 31 1973

RECEIVE...

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

3625 NW

STRATA WELL CORP.

2 Beech St.
ISLIP, N. Y. 11751
Phone 516 581-7100

WELL LOG

B NAME SCWA - INDUSTRY CT.

LOCATION DEER PARK W.R.C. WELL NO. S-46830

FERENCE PT. GROUND SURFACE S. W. L. 70'

ATE STARTED JAN, 1973 COMPLETED DRILLER BANKER, TIMMANN & BUTLER

Core	Sample No.	Actual Depth	Lgth	Blows	Formation	Thickness	Depth	Remarks
					TOP SOIL & LOAM	3	3	
					FINE TO COARSE BR SAND, GRAVEL & STONES	79	82	
					MED. BROWN SAND, STONES & HEAVY GRAVEL	12	94	
					FINE BROWN SAND STONES & GRAVEL	14	108	
					GRAY CLAY	10	118	
					FINE WHITE SAND, STRKS CLAY	48	166	
					SOLID BLACK CLAY & GRAY CLAY	23	189	
					FINE GRAY SAND W/IRON OXIDE & LAYERS GR CL	10	199	
					FINE GRAY SAND (BITS OF GRAY CLAY & LIGNITE)	26	225	
					WHITE & BROWN SANDY CLAY	6	231	
					F-M BROWN SAND, LAYERS OF MULTI COLORED CLAY	9	240	
					FINE GRAY SAND & MICA, IR. OXIDE, BITS OF CLAY	100	340	
					FINE GRAY SAND & STRKS OF CLAY	16	356	
					SOLID GRAY CLAY	11	367	
					FINE GRAY SAND LAYERS OF GRAY CLAY	7	374	
					SOLID GRAY CLAY	4	378	
					F-M GRAY SAND, LAYERS OF GRAY CLAY STRKS	36	414	
					BLACK CLAY AND STRKS, WHITE & LT GR	20	434	
					FINE GRAY SAND, LAYERS CLAY	5	439	
					F-M GRAY SAND & LT GRAY CLAY	49	488	
					LAYERS OF GRAY CLAY W/STRKS OF GR SD	20	508	
					SOLID GRAY CLAY	41	549	
					F-M GR SAND W/LAYERS OF DK GR CLAY	10	559	
					F GRAY & BROWN SAND	8	567	
					CSE GRAY SAND W/LAYERS OF GR CLAY	1	568	
					MULTI COLORED CLAY W/LAYERS OF GR SAND	10	578	
					LAYERS OF IRON OXIDE & LT GRAY SAND WITH BITS OF BROWN CLAY	7	585	

STRATA

4 of 25

WELL CORI

WELL LOG

2 Beech St.
ISLIP, N. Y. 11751
Phone 516 581-7100

JOB NAME SCWA - Industry Ct

LOCATION

REFERENCE PT. W.R.C. WELL NO. S-46630

DATE STARTED 1973 COMPLETED S. W. L.

DRILLER

SAMPLE C or F	SAMPLE No.	SAMPLE Actual Depth	Lgth	Blows	Formation	Thickness	Depth	Rema
					CLAYEY M-C GRAY SAND WITH SILTS OF GR CLAY	3	588	
					IRON OXIDE & SOLID GRAY CLAY WITH LIGNITE & SAND GR	4	592	
					CSE GRAY SAND W/ SILTS OF DK GR CLAY & IRON OXIDE	11	603	
					F-M GRAY SAND & SOLID GRAY CLAY	3	606	
					M-VC GRAY SAND	4	610	
					F-M GRAY SAND (BITS OF LIGNITE & MICA)	46	656	
					SOLID GRAY CLAY	3	659	
					MED GR SAND W/ CLAY STRIPS			SCRE ?
					36" HOLE TERMINATED @ 663'			

S-9125

ORIGINAL—TO COMMISSION

County Suffolk

WSA-5373

State of New York
Department of Conservation
Division of Water Resources

Well No. S-31104
(on preliminary report)

LOG

Ground Surf., Elev. 110 ft. above sea

^ 0 ft.
v
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner Suffolk County Water Authority

Address Oakdale New York

Location of well Emjay Blvd Brentwood NY

Dept of well below surface 658 feet

Depth to ground water from surface 62 feet

CASINGS:
Diameter 16 in. 12 in. 12" in. (Blank)
Length 256 ft. 352 ft. From 655-658 ft.
Sealing Clay Backfill
Casings removed None

SCREENS: Make Cook Openings .070
Diameter 10 T.D. in. in. in. in.
Length 63 ft. ft. ft. ft.
Depth to top from top of casing 592' (Top Slot) ft.

PUMPING TEST: Date 9/29/67 Test or permanent pump? Test
Duration of Test days 8 hours
Maximum Discharge 1500 gallons per minute
Static level prior to test 62 ft. in. below top of casing
Level during Max. Pumping 98 ft. in. below top of casing
Maximum Drawdown 36 ft.
Approx. time of return to normal level after cessation of pumping hours 10 minutes

STATE OF NEW YORK
WATER RESOURCES
OCT 5 1967
COMMISSION
RECEIVED

PUMP INSTALLED: By owner
Type Make Model No
Motive power Make H.P.
Capacity g.p.m. against ft. of discharge head
No. bowls or stages ft. of total head

DROP LINE: By owner SUCTION LINE:
Diameter in. in.
Length ft. ft.

Use of water Municipal Supply

Work started July 26-67 Completed Oct 4-1967

Date Oct 4-67 Driller State Well Corp

License No 1006

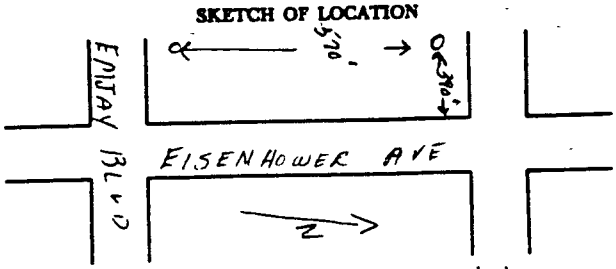
NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

SEE ATTACHED LOG.

6925

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

Well S-31,104

Screened in Basal Magothy

TD - 658 ft. below lsd.
Elev. + 105 ft ± above msl.
Yield - 1500 gpm dd: 36 ft.
Sp. Cap. - 41 gpm/ft of dd.

Correlation (from GW-18 Bull and driller's log)

U.P. 0 to 152 ft. [illegible] lsd.

Magothy 152 to [illegible] ft. " "

Basal Magothy 585 to 638 ft. (bottom of described log.).

(Raritan clay should be at 880± ft below lsd).

(Correlation fairly good, but Basal Magothy seems too thick - would be about 300 ft thick if above correlation is correct.)

USGS McClymonds 10/12/67

FOR ADMINISTRATIVE USE ONLY
Provisional subject to Revision

7025

STRATA WELL CORP.

WELL LOG

BOX "N", DEER PARK, N.Y. 11729
516 MO 7-3700

LOCATION: FIMIAY BLVD SCWA WELL # 2 — W.R.C. WELL NO. S-31104

REFERENCE PT. +11C MSL — S. W. L. 62

DATE STARTED July 26-67 — COMPLETED Oct 4-11-67 — DRILLER Hyatt

SAMPLE Core or Fo.	Actual Depth	Lgth	Blows	Formation	Thickness	Depth	Remarks
				TOP CLAY & TOP SOIL	3	3	
				CSE BR SD, GRAVEL & STONES	75	78	LG
				CSE BR SD & GRAVEL	74	152	
				BR & GR CLAY	3	155	Mo
				CSE GR SD & STREAKS OF WHITE CLAY	8	163	G
				BR SNDY CLAY	2	165	
				BR CLAYEY SD & STREAKS OF BR CLAY	15	180	
				CSE BR SD	6	186	
				FI GR SD	22	208	
				MED BR SD	43	251	
				MULTI COL CLAY W/ STREAKS OF SD	2	253	
				FI GR SD, STREAKS OF MULTI COL CLAY	33	286	
				MED BR SD, STREAKS OF CLAY & H.P	13	299	
				BR CLAY	3	302	
				GR SILTY CLAY & STREAKS OF VF GR SD	13	315	
				FI GR CLAYEY SD	5	320	
				GR CLAY, GR SD & MULTI COL CLAY	8	328	
				FI GR SD	2	330	
				MULTI COL SILTY CLAY	9	339	
				FI BR SD	12	351	
				MULTI COL SILTY CLAY	4	355	
				DK GR CLAY	24	379	
				LTR GR CLAY, GR SD & PYRITE	5	384	
				FI TO MED SD	22	406	
				FI TO MED GR SD	2	408	
				GR SILTY CLAY, STREAKS OF MED GR SD	18	426	
				GR CLAY, PYRITE & LIG, STREAKS OF GR SD	7	433	
				FI TO MED GR SD	7	440	
				MED GR SD STREAKS OF CLAY	7	447	
				GR CLAY			

8/25

STRATA WELL CORP.

BOX "N", DEER PARK, N.Y. 11729
516 MO 7-3700

WELL LOG

JOB NAME _____ W.R.C. WELL NO. S-31104

LOCATION _____ S. W. L. _____

REFERENCE PT. _____

STARTED _____ COMPLETED _____ DRILLER _____

SAMPLE Actual Depth	Lgth	Blows	Formation	Thickness	Depth	Remarks
			FI GR SD STREAKS OF GR CLAY	33	478	
			GR CLAY + STREAKS OF PYRITE	31	509	
			LYRS LT BR CLAY, FI GR SD + PYRITE	9	518	
			MED GR SD	27	545	
			WHITE CLAY	2	547	
			MED GR SD STREAKS OF CLAY	11	558	
			GR CLAY + PYRITE	7	565	
			CSE BR. SD + WHITE CLAY	7	572	
			GR CLAY + LT GR SILTY CLAY	4	576	
			FI GR CLAYIE SD	3	579	
			LT GR SILTY CLAY	4	583	
			FI GR CLAYIE SD	2	585	592
			MED GR SD, FI GRAVEL + STREAKS OF WHITE SOFT CLAY	17	602	
			CSE GR SD + SILTY CLAY	1	603	
			MED BR SD	32	635	
			MED GR SD, SOME STREAKS OF WHITE CLAY SMALL GRAVEL +			655

STRATA WELL CORP.

9 of 25

2 Beech St.
ISLIP, N. Y. 11751
Phone 516 581-7100

WELL LOG

B NAME SUFFOLK COUNTY WATER AUTHORITY

LOCATION Locust Avenue No. 4 W.R.C. WELL NO. S-67074

REFERENCE PT. Grade S. W. L. 36'

DATE STARTED June 14, 1979 COMPLETED Aug. 31, 1979 DRILLER Butler/Rybak

SAMPLE or C	No.	Actual Depth	Lgth	Blows	Formation	Thickness	Depth	Remarks
					Top Soil	2	2	
					Cse. brown sand, gravel, stones	48	50	
					Fine to cse. brown sand, mica & some grits	65	115	
					Fine brown sand and mica	65	180	
					Fine to cse. bn. sd., mica, grits & some gravel	10	190	
					Coarse sand, grits, gravel & lg. stones	5	195	
					Fi. to cse. bn. sd., hdpan, grits, gravel & lumps of yellow clay	23	218	
					Fine brown sand	82	300	
					Fine bn. sand & some stones up to 2½"	12	312	
					Fi. to cse. bn. sd., grits, gravel and lavers of green brown clay	32	344	
					Med. to csd. brn. sd., gravel, stones, iron oxide	9	353	
					Solid dark gr. clay, lig. and pyrite	31	384	
					Med. cse. grey sand, streaks of clay, lignite and pyrite	51	435	
					Fi. to med. gr. sand, mica, lig. & pyrite	21	456	
					Sandy dark grey clay	12	468	
					Fi. grey sand, pyrite, streaks of clay	6	474	
					Fi. grey silty sand, streaks of lignite	26	500	
					Fine grey sand, mica and lignite	25	525	
					Fi. to med. grey sand, mica, lig. & pyrite	10	535	
					Solid grey clay	3	538	
					Layers of sand and solid grey clay	3	541	
					Very fine grey sand and mica	6	547	
					Grey sandy clay, mica and lignite	13	560	
					Fine to med. grey sand, lignite	18	578	
					Sandy grey clay, streaks of lignite & pyrite	20	598	

STRATA WELL CORP.

10425

2 Beech St.
ISLIP, N. Y. 11751
Phone 516 581-7100

WELL LOG

NAME SUFFOLK COUNTY WATER AUTHORITY

LOCATION Locust Avenue No. 4 W.R.C. WELL NO. S-67074

REFERENCE PT. Grade S. W. L. 36'

DATE STARTED June 14, 1979 COMPLETED Aug. 31, 1979 DRILLER Butler/Rybak

SAMPLE or No.	Actual Depth	Lgth	Blows	Formation	Thickness	Depth	Remarks
				Fine grey sand	7	605	
				Sandy light grey clay	5	610	
				Fine grey sand	18	628	
				Sandy dark grey clay	2	630	
				Fine grey sand, streaks of clay	25	655	
				Fi. to med gr. sd., lignite, pyrite & lyr. clay	26	681	
				Solid grey clay	27	708	
				Fi. to med. grey sand, streaks lignite, pyrite	16	724	
				Solid dark grey clay	3	727	
				Fine to medium grey sand	9	736	
				Fine grey sand, streaks of clay & lignite	13	749	
				Fi. to csd. grey sd., streaks of clay & lignite	3	752	
				Grey sdy. clay, streaks of pyrite & lignite	8	760	
				Fine to csd. grey sd., grits & lignite	70	830	
				Solid dark clay		830	

HOLE TERMINATED 830'

RECEIVED

11/25

ORIGINAL—TO COMMISSION

County Suffolk

NSA 3745

State of New York
Department of Conservation
Division of Water Power and Control

COMPLETION REPORT—LONG ISLAND WELL

Well No. S-18566 (on preliminary report)

LOG

Ground Surf., El. .....ft. above sea

A .....ft.

Y Top of Well

Owner Suffolk County Water Authority

Address Sunrise Highway-Oakdale, L.I., N.Y.

Location of well East Forks Rd.-No. Bay Shore, L.I., N.Y.

Depth of well below surface 653 feet

Depth to ground water from surface feet

CASINGS:

Diameter	8 in.	in.	in.	in.
Length	ft.	ft.	ft.	ft.
Sealing				
Casings removed				

SCREENS: Make Openings

Diameter	in.	in.	in	in
Length	ft.	ft.	ft.	ft.
Depth to top from top of casing				ft.

PUMPING TEST: Date Test or permanent pump?

Duration of Test days hours

Maximum Discharge gallons per minute

Static level prior to test ft. in. below top of casing

Level during Max. Pumping ft. in. below top of casing

Maximum Drawdown ft.

Approx. time of return to normal level after cessation of pumping hours minutes

PUMP INSTALLED:

Type Make Model No.

Motive power Make H.P.

Capacity g.p.m. against } ft. of discharge head

No. bowls or stages } ft. of total head

DROP LINE: SUCTION LINE.

Diameter in. in.

Length ft. ft.

Use of water Test Hole

Work started Completed Feb.-1960

Date April 1, 1960 Driller Mathies Well & Pump Co., Inc.

License No. 153

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

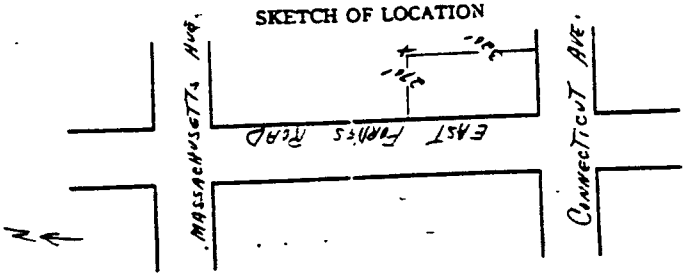
See Instructions as to Well Drillers' Licenses and Reports—pp 5-7.

LOG ATTACHED

STATE OF NEW YORK
WATER RESOURCES
APR 4 1960
COMMISSION
RECEIVED

12/25

SKETCH OF LOCATION

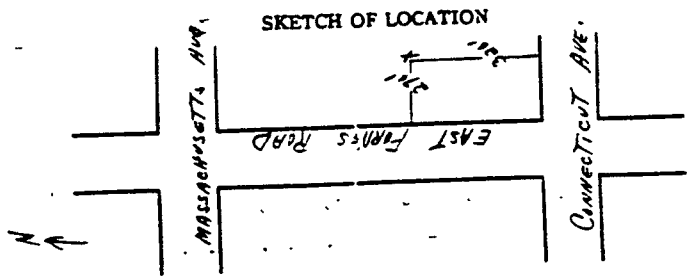


Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

159/25

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

140625

Well No. S-18566 T

SUPPLY WELL LOG

MATHIES WELL DRILLERS
LINDENHURST, N. Y.

WPCC No. 153

Job Suffolk County Water Authority Address East Ponics Rd. - No. Bay Shore, L.I.

Date Started _____ Completed February - 1960 Driller Mathies Well & Pump Co., Inc.

Diameter 8 In. Measured from Grade ☒ Yes ☐ No

Depth 653 Ft. _____ In. Above _____ Ft. _____ In. Below _____ Ft. _____ In.

Static Level _____ Ft. _____ In. Elevation _____ Ft.

	STRATUM		TEMPERATURE	
	THICKNESS Feet	DEPTH Feet	SAND	WATER
Topsoil	0	2		
Medium sand and gravel	2	103		
Grey sandy clay	103	109		
Fine sand, mica and streaks of clay	109	120		
Fine sand, clay, trace of lignite, mica		180		
Fine sandy clay, mica		190		
Fine gray sand, few grits		200		
Fine and medium gray sand		230		
Fine gray sand, mica, streaks of lignite		298		
Dark gray clay	8	306		
Fine to med. grey sand, traces of mica		340		
~~Fine to med. grey sandy traces of mica~~		~~350~~		
Fine to med. grey sand, traces of mica, lignite and traces of clay		370		
Fine grey sand		~~380~~		
Fine grey sand, layers of clay, lignite		390		
Fine grey sandy clay	20	410		
Fine grey sand		420		
Fine sandy clay and clay lenses	40	460		
Grey clay	18	478		
Fine grey sand, mica		490		
Fine to medium sand with clay lenses		513		
Fine to med. sand, traces of lignite, soft grey clay		533		
Fine to med. sand, traces of lignite, traces of clay		653		

STATE OF NEW YORK
CONSERVATION DEPARTMENT
WATER RESOURCES
APR 4 1960
COMMISSION
RECEIVED

15 9/25

ORIGINAL—TO COMMISSION

County . Suffolk

State of New York
Department of Conservation
Division of Water Resources

Well No S-34930
(no preliminary report)

LOG

Ground Surf , Fl . ft above sea

^ ft
v
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

See copy of Formation Log attached.

Owner Suffolk County Water Authority

Address Sunrise Highway, Oakdale, New York

Location of well . WELL #1 -ADAMS AVE. - WYANDANCH, LI

Dept of well below surface . 543'-2 3/8" feet

Depth to ground water from surface 11' feet

CASINGS

Diameter	16 in	12 in	in	in
Length	257'2 3/8" ft	217'-5 3/8" ft	ft	ft
Sealing				
Casings removed				

SCREENS Make Cook-Everdur Openings #70

Diameter	10 in	in	in	in
Length	72'-5 3/8" ft	ft	ft	ft
Depth to top from top of casing				ft

PUMPING TEST Date 4-7-70 Test or permanent pump? Perm

Duration of Test ..... days 2 hours

Maximum Discharge 1200 gallons per minute

Static level prior to test 8.3 ft in. below top of casing

Level during Max. Pumping 37.5 ft in. below top of casing

Maximum Drawdown 21 ft

Approx. time of return to normal level after cessation of pumping hours 30 minutes

PUMP INSTALLED By ~~others~~ at a later date.

Type ~~Deep~~ Make ~~Layne~~ Model No ~~W 6 6~~

Motive power ~~Elec~~ Make ~~GE~~ H.P ~~100~~

Capacity ~~1200~~ g p m. against ~~213~~ ft. of discharge head

No bowls or stages ~~5~~ ~~258~~ ft of total head

DROP LINE		SUCTION LINE	
Diameter	10 in	10	in
Length	~~219~~ ft	~~9'3"~~	ft

Use of water Municipal

Work started October 1968 ~~6/68~~ Completed March 1969 ~~4/2/70~~

Date 25 March 1969 ~~4/2/70~~ Driller MATHIES WELL & PUMP CO., INC.

License No 153 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp 5-7

STATE OF NEW YORK
WATER RESOURCES
MAR 26 1969
RECEIVED

164/25

Adams

MATHIES WELL & PUMP CO. INC #S-34030
LINDENHURST N Y 11757

SUPPLY WELL LOG

Job WELL #1 - SUFFOLK CO. WATER AUTH. Address ADAMS AVE., WYANDANCH, NY

Date Started _____ Completed _____ Driller LOKER-KOHLHEPP-LA FAVE

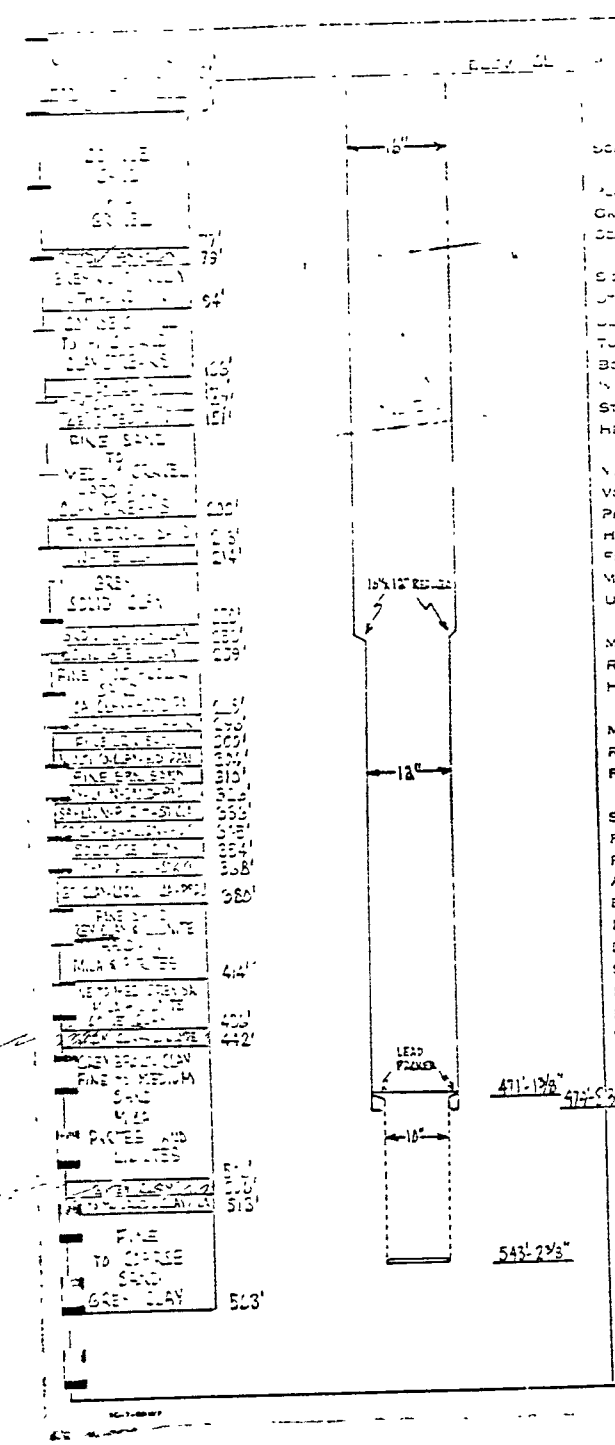
Diameter 36" In. Measured from Grade ☐ Yes ☐ No

Depth 543 Ft. 2 3/8" In. Above 7 Ft. In. Below Ft. In.

Static Level 11 Ft. In. Elevation Ft.

	STRATUM		TEMPERATURE	
	THICKNESS	DEPTH	SAND	WATER
	7	7		
Build Up	2	9		
Loam	68	77		
Coarse Sand & Gravel	2	79		
Solid Gray Clay	15	94		
Gray Clay & Brown Clay - Hard Pan	42	136		
Coarse Gravel to Fine Sand, Clay Strips	5	141		
Gr. Clay	6	147		
Gr Clay & Hard Pan	4	151		
Cemented Gravel	49	200		
Fine Sd to Med. Gravel - Hard Pan, Clay Strips	13	213		
Fine Brown Sand	1	214		
White Clay	36	250		
Gr Solid Clay ≈ 46'	3	253		
Br Sandy Clay	6	259		
Solid Gray Clay	30	289		
Fine Multi-Colored Sand, Mica, Clay, Hard Pan	11	290		
Gray Clay, White Clay, Lignite, Pyrite	4	300		
Fine Brown Sand	4	304		
Multi-Colored Clay, Hard Pan	6	310		
Fine Brown Sand	16	326		
Multi-Col. Clay, Lignite, Fine Sand, Pyrite, Hard Pan	10	336		
Fine Sand, Lignite, Pyrite, Streak of Gray Clay	9	345		
Gray Clay, Fine Sand, Hard Pan, Lignite	9	354		
Solid Gray Clay	14	368		
Fine Gray Sand, Mica, Lignite, Streaks of Clay	12	380		
Gray Clay, Lignite, Mica, Pyrite				

17 of 25



SCREEN 76'-10" OF 10"ID COOK ENERDUR W.W. SLOT # 70

PLUG STD. BALL BOTTOM PLUG

GRAVEL MIXED SIZES # 4 & # 8 MIX - 75% RETAINED ON # 16 SIEVE

SEAL

PUMP

SIZE 12" — MANUFACTURER BYRON JACKSON
STAGES 5 — TYPE ACC
SETTING 365' TO S.P. — COLUMN 10" I.D.
TUBING 10" I.D. — SHAFTING 1 7/16"
BOWLS CAST IRON BRONZE — IMPELLERS BRONZE
S.P. SHAFT 303-STAINLESS — SUCTION 10' OF 10"
STRAINER — PRESS. B.P.
HEAD TF 1018 — AIR LINE 75'-4"-BP

MOTOR

MAKE G.E. — TYPE K
VOLTS 440 — CYCLE 60
PHASE 3 — AMP 117
H.P. 100 — RPM 1800
FRAME 5K447PB2D — NON REV. YES
MODEL 5K6206XP5A — SERIAL NO. EE-507159
UPPER BRG. — LOWER BRG.

GEAR DRIVE

MFG. — MODEL
RATIO — SER. AL NO.
HVY. THRUST — NON-REV.

ENGINE

MFG. — MODEL
RPM — CONTINUOUS H. P.
FUEL — SERIAL NO.

WELL

STARTED 10-16-68 — CLEAR DEPTH 541'-11½" BP
FIRST TEST — METHOD REV. ROTARY
FINAL TEST — GUAR. CAP
ACCEPTED 11-24-68 — GUAR. PRESS.
B.P. ELEV. — FORMATION
DIST. TO G.W. — DRILLER JOWER-LAFAVE-MOULDEN

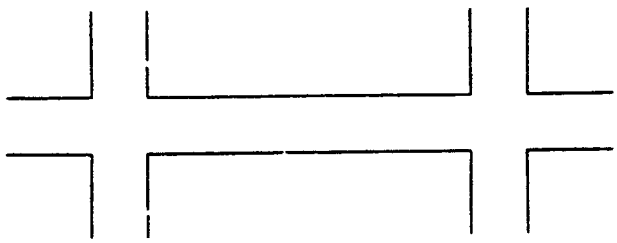
DATE	5-6-69				
STATIC LE	Art'n				
PRODUCTION	1212 GPM				
PUMP LEVEL	27'				
WATER TEMP.	53°				

LOCATION SKETCH

LAYNE-NE / YORK CO., INC. - LESLEN, N. J.
WATER SUPPLY CONTRACTORS
SUFFOLK COUNTY WATER AUTH. ADAMS AVE. HUNTINGTON, L.I.
STATE # S-34090
DRAWN BY NM
LAYNE WELL # MATHIES # 1 — CUSTOMER WELL # 1

18 9/25 -

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot

Show North Point

Well 8-34030

Screened in Magothy aquifer (Basal?)

T.D. - 543 ft below lsd

Elev. - 62 ft ± above msl

Yield - ?

Sp. Cap. - ?

Correlation (from GW-18, drillers log, and U.S.G.S. records)

U.P. 0 to 70 ft below lsd

Magothy 70 to 563 ft below lsd

(Correlation good) [illegible] U.S.G.S. Hans Jensen

19425

ORIGINAL—TO COMMISSION

County Suffolk

State of New York
Department of Conservation
Division of Water Resources

Well No S-23046 (no preliminary report)

LOG

Ground Surf, El ..... ft. above sea

^
. . ....ft.
v
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner Suffolk County Water Authority, Layne Well #20 (their 1)

Address Sunrise Highway at Pond Road, Oakdale, N. Y.
W/S Brook Ave. between Morgan Ave. & DeKay Place

Location of well Deer Park, N. Y.

Dept of well below surface 488' 2-1/8" feet

Depth to ground water from surface 31 feet

Casings

Diameter	16 in	12 in	in	in.
Length	247 ft	138 ft	ft	ft
Sealing	cemented			
Casings removed	none			

Screens Make Cook Everdur Openings Wire Wrapped #70

Diameter	10 in	in	in	in
Length	55 ft	ft	ft	ft
Depth to top from top of casing	387' 3"			ft

Pumping Test Date 11/19/64 Test or permanent pump? Test

Duration of Test ..... days 8 hours

Maximum Discharge 1500 gallons per minute

Static level prior to test 31 ft. in. below top of casing

Level during Max. Pumping 68 ft. in. below top of casing

Maximum Drawdown 37 ft.

Approx. time of return to normal level after cessation of pumping ..... hours 30 minutes

BLUEPRINT ATTACHED

Pump Installed NONE

Type D.W.T. Make Layne-Bowler Model No 12 WMC

Motive power Elec Make US H.P. 40 HP

Capacity 1200 gpm. against 180 ft. of discharge head
No bowls or stages 6) 200 ft of total head

Drop Line Diameter 10 in Length 80 ft

Suction Line Diameter 10 in 9'7½" ft

Use of water Public Supply

Work started 10/6/64 Completed 11/19/64

Date 2/3/65 Driller Layne-New York Co., Inc.

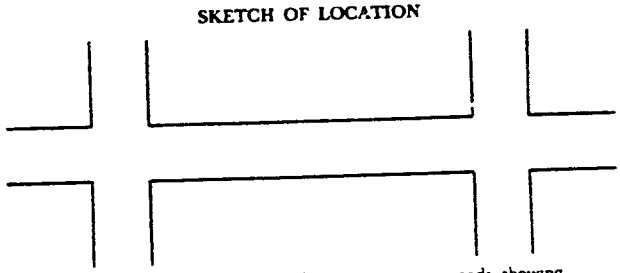
License No 5

Note: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job

See Instructions as to Well Drillers' Licenses and Reports—pp 5-7

2.06/25

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot

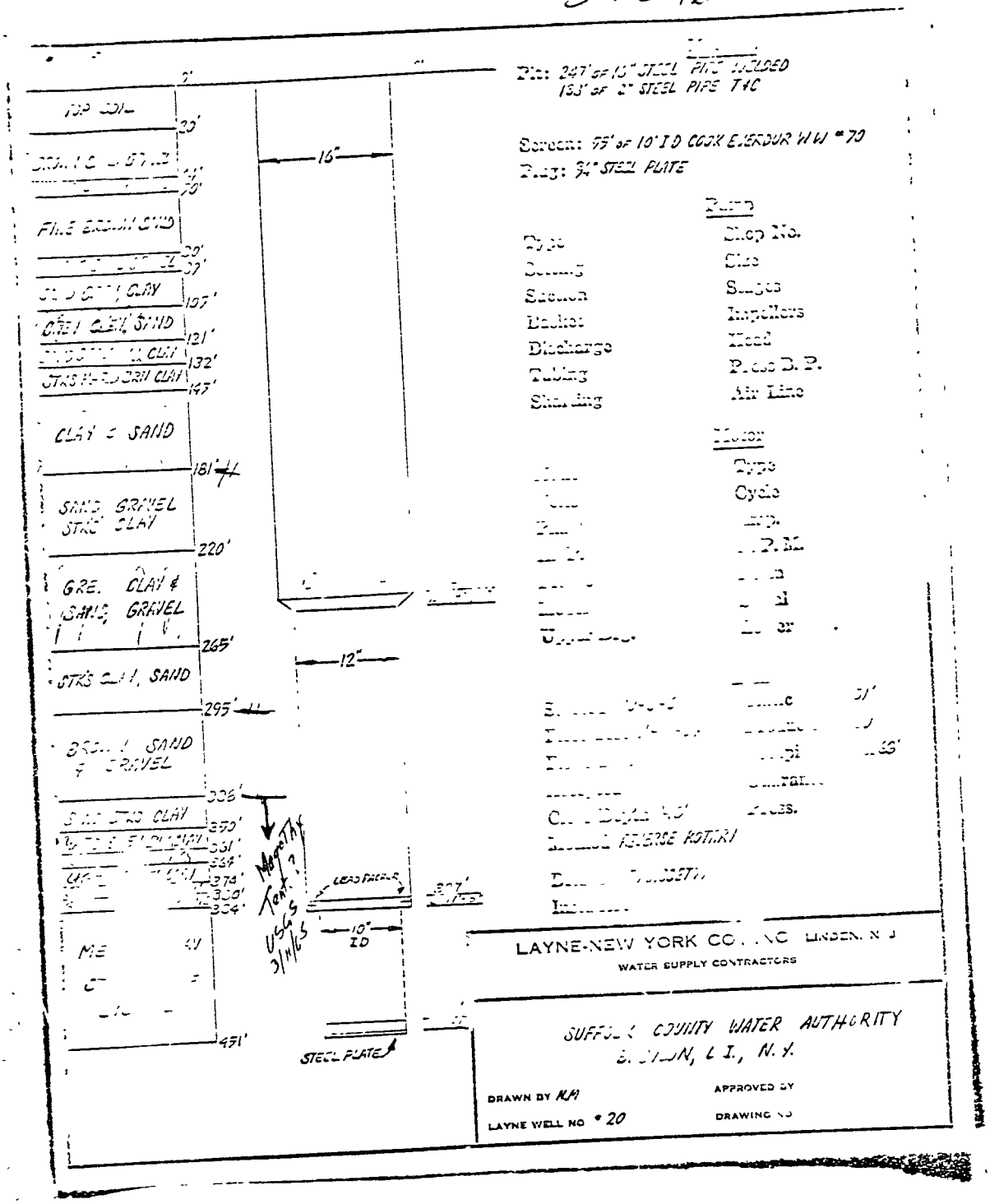
Show North Point

1-5-67 -Layne

2192

Brookhaven

S-23046



P.

2 29 15

ORIGINAL—TO COMMISSION

County Suffolk

Well No. 5-59347 (on preliminary report)

State of New York
Department of Conservation
Division of Water Resources

LOG

Ground Surf., El. ..... ft above se

^
.....ft.
v
Top of Well

COMPLETION REPORT—LONG ISLAND WELL

Owner Suffolk County Water Authority — See Attached

Address Pond Road, Oakdale

Location of well Bay Shore Road, Bay Shore

Depth of well below surface 463'-5 3/4" feet

Depth to ground water from surface 12'-3" (8/1/77) 2'-5½" feet

CASINGS:

Diameter	20" in.	in.	in.	in.
Length	373' ft.	ft.	ft.	ft.
Sealing	50' CONCRETE			
Casings removed	NONE			

SCREENS: Make Cook 316 SS Openings #35 Slot

Diameter	10" in.	I.D. in.	in.	in.
Length	70' ft.	ft.	ft.	ft
Depth to top Slot from top of casing	385'-6" ft.			

PUMPING TEST: Date 10/13/76 Test or permanent pump? TEST

Duration of Test ..... days 8 hours

Maximum Discharge 1284 gallons per minute

Static level prior to test 30' ft. 6" in. below top of casing

Level during Max. Pumping 55' ft. in. below top of casing

Maximum Drawdown 34½' ft.

Approx. time of return to normal level after cessation of pumping 12 hours minutes

PUMP INSTALLED:

Type OWT Make Bay Layne OTHERS Model No. TLC

Motive power Elec. Make U.S. H.P. 100

Capacity 1400 g.p.m. against 233 TDH ft. of discharge head

No bowls or stages 5 ft. of total head

DROP LINE:		SUCTION LINE:	
Diameter	12 in.	10	in.
Length	90' ft.	9'-11"	ft.

Method of Drilling (Rotary, cable tool, etc.) REVERSE ROTARY

Use of Water Public Supply

Work started 8/16/76 Completed 10/15/76 8/1/77

Date 10/21/76 2/25/77 Driller Strata Well Corp. Layne-N.Y.

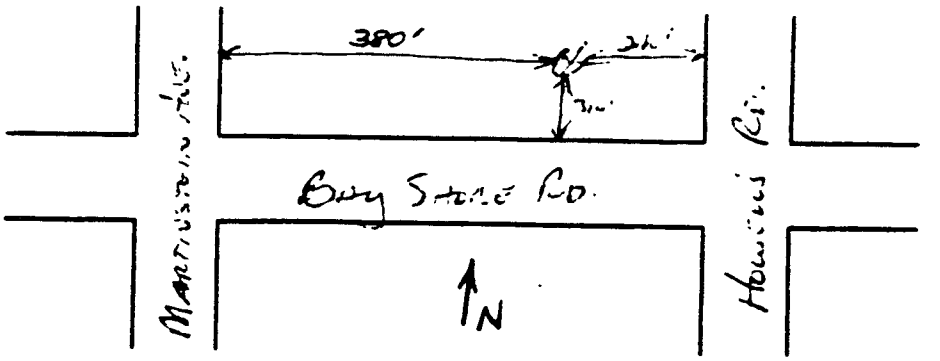
License No. 1000 5

NOTE: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

See Instructions as to Well Drillers' Licenses and Reports—pp. 5-7.

23925

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

24/25

STRATA WELL CORP.

Minor Clay
Thompkins

2 Beech St.
ISLIP, N. Y. 11751
Phone 516 581-7100

WELL LOG

NAME SCWA Bay Shore Rd.

LOCATION Bay Shore Rd., Islip W.R.C. WELL NO. S-59347

REFERENCE PT. GRADE S. W. L.

DATE STARTED 8/16/76 COMPLETED 10/15/76 DRILLER Bander, Butler, Hunt

SAMPLE No.	SAMPLE Actual Depth	Lgth	Blows	Formation	(FEET) Thickness	(FEET) Depth	Remarks
				TOP SOIL	2	2	
				CASE BR SAND, GRAVEL, STONES	33	35	
				MED - CASE BR. SAND, GRAVEL	15	50	
				MED FINE BROWN SAND	49	99	
				CASE BR. SAND, GRAVEL, CLAY	5	104	
				MULTI-COLORED CLAY, GRAVEL, IRON OXIDE	2	106	
				FINE - MEDIUM BROWN SAND	6	112	
				BROWN SANDY CLAY	2	114	
				LIGHT - MULTI - COLORED CLAY, STKS SAND	3	117	
				FINE BR SAND, STKS CLAY	13	130	
				FINE GREY SAND, STKS of CLAY	40	170	
				MED CASE GREY SAND, STKS LIGNITE	9	179	
				CSE GRAY SAND, DARK CLAY, LIGNITE	2	181	
				SOLID DARK CLAY	5	186	
				MED CASE GREY SAND, STKS of CLAY	4	190	
				FI - MED GREY SAND, MICA, LIGNITE	18	208	
				GREY CLAY, STKS SAND, LIGNITE, MICA	2	210	
				FINE GRAY SAND, STKS CLAY, LIGNITE	21	231	
				GREY CLAY, STKS SAND, LIGNITE	3	234	
				GREY SANDY CLAY, STKS of SAND	4	238	
				FINE GRAY SAND, STKS of CLAY, LIGNITE	103	341	
				SOLID GRAY CLAY	15	356	
				FINE SAND, MUCH SMALL PYRITE, LIGNITE, CLAY BTS	2	358	
				SOLID LIGNITE, SMALL PYRITE, FINE SAND	1	359	
				FINE SAND, LIGNITE, PYRITE, CLAY	1	360	
				BLACK CLAY W/ PYRITE	4	364	Hard
				DARK GREY CLAY, PYRITE	16	380	
				FI - MED GREY SAND, STKS of CLAY, LIGNITE	73	453	

25925

STRATA WELL CORP.

2 Beach St.
ISLIP, N. Y. 11751
Phone 516 531-7100

WELL 106

NAME _____

LOCATION _____ W.R.C. WELL NO. S-59347

CREEK PT. _____ S. W. L. _____

DATE STARTED _____ COMPLETED _____ DRILLER _____

SAMPLE No.	SAMPLE Actual Depth	Lgth	Blows	Formation	Thickness	Depth	Remarks
				FINE GRAY SAND, MUCH LIGNITE & PYRITE	3	453	
				FINE GRAY SAND, STKS CLAY, PYRITE	1	454	
				FINE GRAY SAND	1	455	
				GRAY CLAY, STKS of SAND	9	470	
				MED. CRSE GRAY SAND, CLAY, LIGNITE	45	515	
				FI-MED VERY CLAYEY SAND			
				HOLE TERMINATED AT 515'			

Appendix 1.3-3

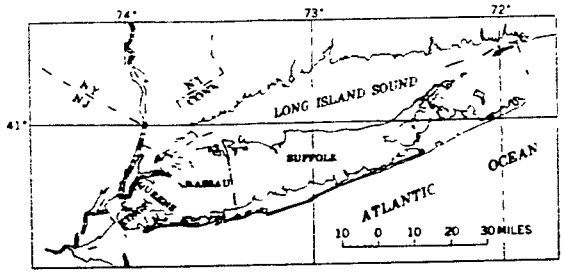
Hydrology of Suffolk County, Long Island, NY

Jensen & Soren, 1974

INTRODUCTION

WATER NEEDS OF SUFFOLK COUNTY

Water pumped from aquifers underlying Suffolk County (index map) is the sole source of water used for public supply, agriculture and industry. The county's population grew from less than 200,000 in 1940 to 1.1 million in 1970. Most of the growth occurred after 1950. Ground-water pumpage increased from 40 mgd (million gallons per day) in 1950 to 155 mgd in 1970 (New York State Department of Environmental Conservation, written commun., June 1, 1971). The projected ground-water use for an anticipated population of 2 million in the county by 1990 is 300 mgd (New York State Conservation Department, 1970, p. 26–27).



INDEX MAP SHOWING LOCATION (SHADED) OF SUFFOLK COUNTY

PURPOSE AND SCOPE

The large and growing demand for ground water in Suffolk County has created a need for a detailed knowledge of the geometry and the hydrologic characteristics of the ground-water reservoir. Mapping of subsurface geology and hydraulic heads in the aquifers are important prerequisites to obtaining this information. Maps of the subsurface geologic units of Long Island were first shown in a report by Suter and others (1949, pls. VIII to XXI). But those maps were highly generalized because there were few data on deep borings and wells in the county when the report was prepared. Since 1949 additional data from many deep borings and wells in the county have been collected.

In 1968, as part of a continuing cooperative program of water-resources studies with the Suffolk County Water Authority and Suffolk County Department of Environmental Control, the U.S. Geological Survey began an updating of the hydrogeologic and hydrologic maps of all the county. The basic data in Jensen and Soren (1971) the first product of the program, are the basis for the hydrologic maps in this report.

ACKNOWLEDGMENTS

The authors appreciate the cooperation of well-drilling companies, their employees and the many officials of public and private water companies who furnished geologic and hydrologic data for use in this report.

GEOLOGIC AND HYDROGEOLOGIC UNITS

Pleistocene glacial drift generally mantles the county's surface. Pleistocene deposits overlie unconsolidated deposits of Late Cretaceous age. The Cretaceous strata lie on a peneplain that was developed on Precambrian(?) crystalline rocks.

Major landforms include ridges, valleys, and plains. These landforms are roughly oriented in belts parallel to the county's length. The northern and the central parts are traversed by irregular sandy and gravelly ridges of terminal moraine. The crest of the northern ridge ranges in height from 100 to 300 feet above sea level and the crest of the central ridge from 150 to 400 feet. The highest altitudes in the inter-ridge area range from 100 to 200 feet. Irregular plains and rolling hills formed from sandy and gravelly ground moraine and outwash deposits of sand and gravel lie in the area between the ridges. An outwash plain slopes at a near-uniform gradient from the southern base of the central ridge, which is about 100 feet above sea level, southward to Great South Bay and the ocean. Along the north shore, steep bluffs as high as 100 feet and generally narrow sandy and gravelly beaches face Long Island Sound. The barrier-bar system at the southernmost side of the county is composed of sandy beach and dune deposits. The highest altitudes of the barrier bars generally range from 10 to 45 feet.

The ground-water reservoir system of Suffolk County is composed of hydrogeologic units that include lenses and layers of clay, silt, clayey and silty sand, sand, and gravel. A hydrogeologic unit consists of a geologic unit or a group of contiguous geologic units classified by hydraulic characteristics. These units include aquifers which are principal water sources and confining layers which separate the aquifers. The aquifers are, from the land surface downward, the upper glacial aquifer, the Magothy aquifer, and the Lloyd aquifer. The major areal confining layers are, in descending order, the Gardiners Clay, the Monmouth greensand, and the Raritan clay. The base of the ground-water reservoir is the crystalline bedrock. Characteristics of the geologic and the hydrogeologic units are summarized in the table, and the following data of hydrologic significance are shown on the maps: base of ground-water reservoir, altitudes of aquifers, altitudes and limits of confining layers, and distribution of surficial deposits. The hydrogeologic sections show the vertical relations of the units to each other.

The sharp angular shapes of some of the contours reflect the fact that in places the contours are drawn on stratigraphic tops of the hydrogeologic units and in places the contours are drawn on erosional surfaces. The sharp angles result from the juncture of a stratigraphic top and an eroded surface.

Appendix 1.3-4
1 of 2

Hydrogeology of the Huntington-Smithtown area Suffolk County, New York

By E. R. LUBKE

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1669-D

Prepared in cooperation with the Suffolk County Board of Supervisors, the Suffolk County Water Authority, and the New York Water Resources Commission

UNITED STATES GOVERNMENT PRINTING OFFICE WASHINGTON : 1964

foot, and are commonly masked by fluctuations of larger amplitude. Cyclical fluctuations in pressure also result from ocean tides, particularly in wells screened in the intermediate and deep aquifers near Long Island Sound. For example, at well S2020 located on a promontory between Duck Island Harbor and Northport Bay and screened in the deep aquifer, water-level fluctuations caused by tidal loading have a daily amplitude of as much as 3 feet between high and low tide. Tidal changes in Lloyd and Cold Spring Harbors also influence the water levels of wells S9 and S4466, both of which are screened in the deep aquifer.

RECHARGE

All the fresh water in the ground-water reservoir of the project area, as well as the rest of Long Island, is derived from precipitation. However, only a part of the total precipitation that falls reaches the water table. The amount which percolates down to the water table and recharges the reservoir is the residual of the total precipitation not returned to the atmosphere by evapotranspiration or lost to the sea by overland runoff. Owing to the highly pervious nature of the soil and the substrata and to the gentle slopes of the land surface, infiltration is relatively high. Of an average annual precipitation on the project area of 49 inches, 21 inches, or about 43 percent, is estimated to reach the water table.

The catchment surface on which recharge presumably takes place includes most of the land area of the project, or about 146 square miles. This catchment includes Lloyd and Eatons Necks but does not include an additional 7 square miles of high water table and tidal marshes which fringe the northern shoreline. A considerable part of the catchment area, however, is made impervious by buildings and pavements, but much of the runoff from such covered areas is recovered in storm water disposal (recharge) basins or large-diameter diffusion wells. The natural recharge from precipitation on the project area, exclusive of the high water-table areas, the tidal marshes and of Lloyd and Eatons Necks, is estimated to average about 140 mgd (million gallons per day). In addition, the recharge on Lloyd Neck is estimated to average about 5 mgd and on Eatons Neck about 2 mgd. The total for the project area then would be about 147 mgd. The rate of natural recharge varies greatly from season to season and from year to year depending on such factors as evapotranspiration, air and soil temperatures, soil-moisture conditions, and the nature and seasonal distribution of precipitation. During dry years, recharge is substantially less than average, and conversely in wet years it is more.

Natural replenishment of the intermediate and deep aquifers takes place entirely by downward movement of water from the shallow aquifer through discontinuities in clayey and silty beds and probably directly by slow movement through these aquicludes. Recharge of the intermediate aquifer probably occurs chiefly in the areas where the water table lies above an altitude of about 60 feet (pl. 5). The deep aquifer, in turn, receives recharge by downward leakage from the intermediate aquifer through an extensive aquiclude formed chiefly by the clay member of the Raritan formation. This recharge, which probably proceeds at a very slow rate, occurs chiefly where the piezometric surface of the intermediate aquifer lies above an altitude of about 60 feet (fig. 6).

Artificial recharge of the ground-water reservoir is effected by means of cesspools and septic tanks, which ultimately receive most of the water pumped from public-supply and domestic wells. For example, during 1957 an estimated average of about 9.8 mgd was returned to the ground by this means in the project area, and at the same time about 2.5 mgd was discharged directly into Long Island Sound through sewage disposal systems at the villages of Huntington and Northport and at Kings Park State Hospital. Also, as required by law, an average of about 0.7 mgd of water pumped from privately owned wells for industrial and cooling purposes during 1957 was returned to the ground through sumps and diffusion wells.

MOVEMENT

In the ground-water reservoir, water moves vertically and laterally from points of high head to points of low head along flow lines whose direction is normal to the contour lines shown for the water table (pl. 5) and the piezometric surfaces (figs. 6 and 9). Water in the shallow aquifer flows away from the two major highs on the main watertable divide of Long Island, represented by areas above the 70-foot watertable contour in south-central Huntington and eastern Smithtown (pl. 5). The general directions of ground-water flow are north toward the Long Island Sound, south toward the Atlantic Ocean, and also a pronounced lateral movement toward the trough in the valley of the Nissequogue River. Local directions of flow, which may deviate substantially from these general directions, are indicated by arrows on the water-table contours (pl. 5). Also, the peninsulas of Lloyd, Eatons, and Little Necks each contain a groundwater mound in the shallow aquifer and from the crests of these mounds the shallow ground water moves laterally outward to bounding salt-water bodies. Within the area circumscribed by the 60-foot water-table contour (pl. 5), a downward head differential generally exists between the shallow and intermediate aquifers. Conse-

Appendix 1.3-5
1 of 2

Hydrology of the Babylon-Islip Area Suffolk County Long Island, New York

By E. J. PLUHOWSKI and I. H. KANTROWITZ

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1768

Prepared in cooperation with the Suffolk County Board of Supervisors, Suffolk County Water Authority, and the New York State Water Resources Commission

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON : 1964

(Brice, Whitaker, and Sawyer, 1956, p. 32). Infiltration rates apparently depend chiefly on the interval between successive floodings, depth of water, and permeability of the basin surface. There are now more than 80 storm-water recharge basins in the Babylon-Islip area, and the number may be expected to increase as urbanization continues. The effectiveness of the basins as a means of recharging storm water to the ground-water reservoir from a suburban area is probably comparable to that of natural surface conditions prior to urbanization (Brice, Whitaker, and Sawyer, 1956, p. 2).

Public sanitary-sewer systems on Long Island discharge their effluent directly into tidewater. Because there are no such systems in the Babylon-Islip area (1961), theoretically all water withdrawn from the ground-water reservoir is returned to the ground. Two large sewage-leaching beds serve Pilgrim and Central Islip State Hospitals, and several smaller ones are at other institutions. The balance of domestic sewage is returned to the ground through cesspools. Water pumped for industrial purposes is usually returned through diffusion wells and cesspools. A small amount of industrial pumpage containing contaminants is discharged into tidewater to avoid pollution of ground-water supplies.

Artificial recharge in the Babylon-Islip area counters the effect of urbanization by restoring the natural rate of infiltration of precipitation through the use of recharge basins and by returning most of the water pumped.

Because it is not practical to measure directly the rate of recharge to the ground-water reservoir, recharge must be determined by indirect methods. An approximate value for recharge is obtained by subtracting evapotranspiration losses and direct runoff from precipitation. The recharge to the ground-water reservoir in the Babylon Islip area as determined by this method is:

	Approximate annual rate (inches)	
Precipitation		46
Evapotranspiration	21	
Direct runoff	1	
Total water loss		22
Recharge to ground-water reservoir		24

A recharge rate of 24 inches per year is equivalent to 1.1 mgd (million gallons per day) per sq mi or an annual total of about 215 mgd for the Babylon-Islip area. The bulk of this recharge occurs during late fall, winter, and early spring, when evapotranspiration is at a minimum.

WORKSHEET: COMMUNITY WATER SUPPLIES AND MONITORING WELLS WITHIN A 3-mi RADIUS OF THE SITE Commercial Envelope Mfg. Co.

Community Water Supply	Water District	Well Field	Well	Depth (ft)	Aquifer
SCWA	Patchogue	Locust Ave.	1S-20045	140	Glacial
			2S-22711	140	Glacial
			3S-34522	149	Glacial
			4S-67074	830	Magothy
			5S-68690	824	Magothy
	Babylon	Adams Ave.	1S-34030	538	Magothy
			2S-34031	515	Magothy
		Plymouth St.	1S-18261	377	Magothy
			2S-18621	201	Glacial
			3S-22548	416	Magothy
		Industry Ct.	1S-40497	283	Magothy
			2S-46830	655	Magothy
		Wyandanch Ave.	1S-23848	6341	Magothy
			2S-25674	625	Magothy
		August Rd.	2S-16256	600	Magothy
			3S-20635	627	Magothy
			4S-37861	636	Magothy
		Brook Ave.	1S-23046	448	Magothy
			2S-25617	440	Magothy
			3S-36714	308	Magothy
			4S-55463	360	Magothy
	Bayshore	Thomas Ave.	1S-46235	713	Magothy
			2S-50546	667	Magothy
		Bayshore Rd.	1S-59347	463	Magothy
			2S-72917	460	Magothy
		E. Forks Rd.	1S-13534	119	Glacial
			2S-16176	117	Glacial
			3S-18566	376	Magothy
			4S-38192	306	Magothy
		Emjay Blvd.	1S-23445	608	Magothy
			2S-31104	660	Magothy
			3S-57008	634	Magothy
		Locust Dr.	1S-15898	128	Glacial

WORKSHEET (cont.)

Community Water Supply	Water District	Well Field	Well	Depth (ft)	Aquifer
SCWA, Cont'd	Bayshore, Cont'd	Locust Dr	3S-36460	611	Magothy
		Harvest Ln.	1S-21366	455	Magothy
			2S-22389	465	Magothy
			3S-39024	623	Magothy
		Sonrise Highway	1S-55733	233	Magothy
			2S-55734	308	Magothy
			3S-66429	718	Magothy
Dix Hills	Dix Hills	Ryder Ave	8-1S-34022	490	Magothy
Brentwood	Brentwood	Third Ave.	1-4S-43088	753	Magothy
Sam A Lewison Start Center					

Sources:

SCDHS. Water Resources Division. Supply and Monitoring Well Location Maps. 3E, 4E, 2E, 2D, 3D, 4D, 3F, 4F, 3C, 4C

SCWA. 1984. Well Descriptions.

SCWA. 1985. Distribution System Plates.

SCWA. 1986. Active Services Estimates and Service Area Map.

Banks, C. 1986. Consulting Engineer, H2M. Personal Communication. 27 February.

Branda, 1986. Superintendant, Brentwood Water District. Personal Communication. 26 February.

Suffolk County Water Authority Service Area

Brentwood Water District

Dix Hills Water District

Commercial Envelope

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science and Technology, Inc

COMMUNICATIONS RECORD FORM

Distribution: (x) File, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr. Charlie Banks Date: 27 February 1986

Phone Number: (516) 752-9060 Title: Consulting Engineer

Affiliation: H_2M Type of Contact: Telephone

Address: _____ Person Making Contact: E. Bidwell

Communications Summary: H_2M has done the engineering work for Dix Hills Water District. There are five wells in our area of concern. Ryder Avenue well S-34022 is 490 feet deep. The Thorngrove well field consists of 2 wells approximately 700 feet deep. Colby Court has one well 605 feet deep. Elkland Road has one well 705 feet deep. All wells are in the Magothy Formation and the entire water district serves 29,415. The system is integrated but due to high and low zones these wells could effectively be isolated.

(see over for additional space)

Signature: Ellen Rodwell

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science and Technology, Inc.

OK P 5 5 5

COMMUNICATIONS RECORD FORM

Distribution: (X) File, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr. Brando Date: 26 February 1986

Phone Number: (516) 273-4565 Title: Superintendent

Affiliation: Brentwood Water District Type of Contact: Telephone

Address: _____ Person Making Contact: E. Bidwell

Communications Summary: The 2 wellfields in our studies pull from the Magothy Aquifer. They own one other well and their system is fully integrated. They currently have 6,500 hookups approximately 26,000 consumers.

They are in the process of installing a system in an Industrial Park. This park will eventually house 150 buildings. The area is bounded on the north by Pilgrim State Hospital, the east by Sagtikos State Parkway, the south by Long Island Railroad and the west by Islip Town Line.

(see over for additional space)

Signature: Ellen Bidwell

Appendix 1.5-1

RECEIVED [illegible]

United States
Department of
Agriculture

Soil
Conservation
Service

127 East Main Street
Riverhead, New York 11901

March 13, 1986

Mr. William L. Going, Manager
Environmental Assessment Studies
EA Science and Technology
R.D. 2, Box 91
Middletown, New York 10940

Dear Mr. Going:

This office has not compiled any information on the number of acres irrigated based on specific locations in Suffolk County. The 1982 Census of Agriculture estimates that 23,232 acres are irrigated on 500 farms, however, the specific locations of this acreage is not readily available.

The major source of irrigation water in Suffolk County is groundwater through wells. There are literally thousands of wells scattered throughout the county. To locate wells within a three mile radius of the inactive hazardous waste sites would be an impossible task.

Just to inventory the irrigated acres in proximity to these sites would be very time consuming. I do not have the manpower nor the time at present to accomplish such a task.

I would be more than willing to provide you with access to our aerial photographs, soil maps, topographic surveys and other technical information which might be helpful to you in making this inventory.

If you have any questions or I may be of further assistance, call me at 516-727-2315.

Sincerely,

Allan S. Connell

Allan S. Connell,
District Conservationist

3/28/86 Mr. Connell says that the 23,232 ac/500 farms represent the vast majority ... up to 90% ... for Suffolk Co. and that I can assume all irrigate ... so I will convert ag. land on color plates (land use) to irrigated acreage.
William L. Going

Appendix 1.5-2

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Suffolk Co. General, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr. Dan Fricke Date: 4-7-86

Phone Number: 516 727 7850 Title: Coop Ext. Ag. Agent

Affiliation: Suffolk Co. Coop Ext. Assn. Type of Contact: Phone

Address: 264 Griffing Ave. Riverhead NY Person Making Contact: Bud

Communications Summary: I asked Dan question about irrigation practices in Suffolk Co. i.e. could Coop Ext. identify sources of irrigation water (well + surface) and tell me for all irrigated ~~crops~~ acreage... which was in food production or dairy farms?

He said that all irrigation wells were supposed to be registered with the State and that perhaps SCDHS had the maps to indicate location and number (Joe Bair?) or (Steve Carey).

* He said there was no surface water used for irrigation on the Island.

He said that once we had located all the wells within required distance of sites; we would have to talk to Coop Ext about each well to find out about the use of the land; very time consuming process.

(see over for additional space)

Signature: William Young

Appendix 1.5-3

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Suffolk Co. General Files
( ) _____, ( ) _____
( ) Author

Person Contacted: Steve Carey Date: 4-7-86

Phone Number: 516 348 2893 Title: Chief

Affiliation: SCDHS Groundwater Section Type of Contact: Phone

Address: 225 Rabro Dr. Person Making Contact: Bud Going
Hauppauge, NY

Communications Summary: I asked him question about source of irrigation water for farm land in food production ---

Steve said wells greater than 45 gpm were registered by NYSDEC Reg 1 except that farms were mostly exempted.

He suggested I contact Doug Pica NYSDEC for information.

(see over for additional space)

Signature: William Going

Appendix 1.5-4

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Suffolk Co. General Files) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr. Doug Pica Date: 4-7-86

Phone Number: 516 751-7900 Title: _____

Affiliation: NYSDEC Reg 1 Water Unit Type of Contact: Phone

Address: Stonybrook NY Person Making Contact: Bud Soria

Communications Summary: I asked questions about irrigation practices on Long Island and about regulations of wells (irrigation supply). Doug said DEC regulated wells that supplied irrigation water to golf courses but did not regulate any farm supply wells because they are exempted from regulation. He therefore has no info on farmland irrigation practices.

(see over for additional space)

Signature: William Soria

Appendix 1.5-5

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) _____, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr Charles Guthrie **Date:** 9/17/86

Phone Number: (516) 751-7900 **Title:** Regional Fisheries Manager

Affiliation: NYSDEC Region I **Type of Contact:** phone

Address: SUNY Campus-Building 40 **Person Making Contact:** L Rogers
Stony Brook, NY 11794

Communications Summary: After explaining that I was working on a Phase I report, I asked Mr Guthrie whether or not he considered Sampawams Creek, starting just north of Guggenheim Lakes, to be recreational. He stated yes, it had the ability to support trout

(see over for additional space)

Signature: Lori Rogers

Appendix 1.5-6

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) DEC63A, ( ) _____
( ) _____, ( ) _____
( ) Author

Person Contacted: John Ozard Date: 3-6-86

Phone Number: 5184397486 Title: Sr. Wildlife Biologist

Affiliation: NYS DEC Type of Contact: Phone

Address: Delmar NY Person Making Contact: W Going

Communications Summary: Called John for clarification of the letter, dated 26 February 1986, regarding "significant habitats" ---

Q. Don't see any reference to Federally listed Threatened or Endangered Spp. on any of the 42 site location maps you sent back w your letter -- does this mean there is no habitat of concern for these spp? A. yes -- there is no critical habitat for (Federal spp) at any of the sites being examined.

Q. Are all the wetlands on LI in the vicinity of our sites (refer to location maps) "coastal" wetlands? A. Yes. They all have varying amount of salt being that near the Sound or the Ocean, to be considered coastal wetlands -- also refer to the ("Natural Heritage") wetland marked in blue.

(see over for additional space)

Signature: William Going

Appendix 1.5-7

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) Commercial Env. Mngt. Co. Inc.
( ) _____, ( ) _____
( ) Author

Person Contacted: Wm. Hayden Date: 10/10/96

Phone Number: 5169573069 Title: Asst. Fire Inspector

Affiliation: Town of Babylon Type of Contact: Phone

Address: 200 East Sunrise Hwy Person Making Contact: Gorin
Lindenhurst NY 11757

Communications Summary: Explained Phase I to Mr Hayden and asked him if the above ref. site was an imminent threat from fire a explosion... He indicated that although they have violated county and Town fire codes regarding fire fighting equipment + exits etc. they were not an imminent threat.

(see over for additional space)

Signature: William Gorin

Appendix 1.5-8

LAND USE

F 1 of 3

- 1981

Quantification and Analysis of Land Use for Nassau and Suffolk Counties

AREAWIDE
WASTE TREATMENT
MANAGEMENT

December 1982

Long Island Regional Planning Board


N
LOT 9650
3

LEGEND

RESIDENTIAL


1 D.U. & Less/Acre (low density)


2–4 D.U./Acre


5–10 D.U./Acre


11 D.U. & Over/Acre (high density)


Commercial

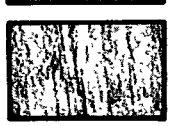

Commercial Recreation

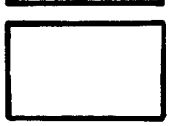

Industrial


Institutional


Open Space & Recreational

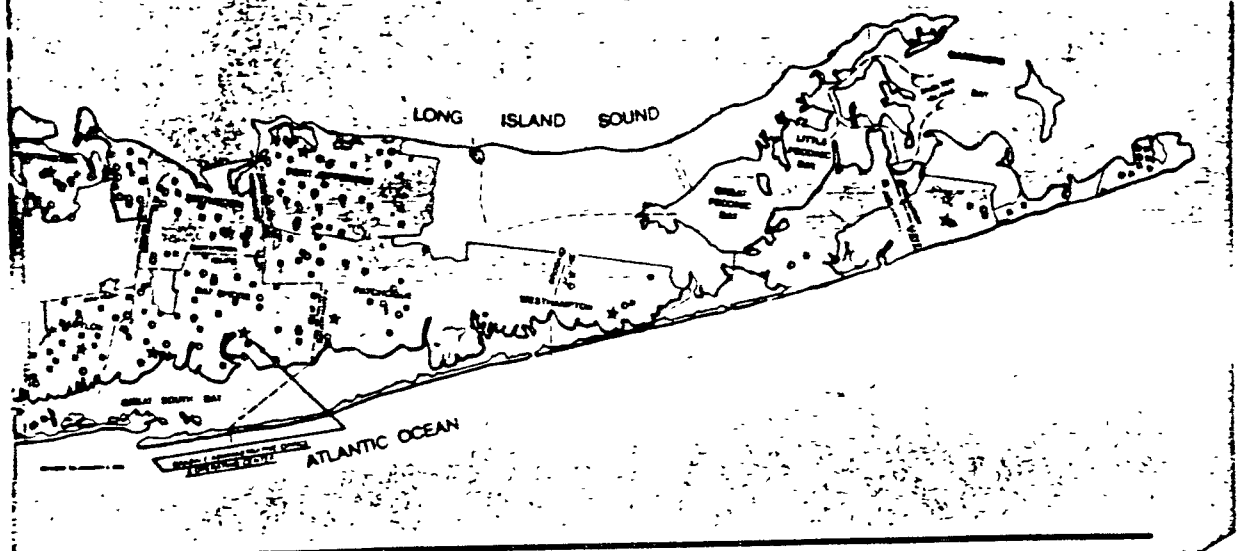

Agricultural


Transportation & Utilities


Vacant

Appendix 1.5-9
plot 2

Communities Served:



SCWA SERVICE AREAS ■ WELL FIELD & PUMP STATIONS ★ COMMERCIAL OFFICES ○ STORAGE FACILITY

BABYLON DISTRICT
Amity Harbor
Amityville
Babylon
Copiague
Deer Park
Dix Hills
Lindenhurst
North Amityville
North Babylon
North Lindenhurst
Pinelawn
West Babylon
Wheatley Heights
Wyandanch

BAY SHORE DISTRICT
Bay Shore
Brentwood
Brightwaters
Central Islip
East Islip
Edgewood
Great River
Islip
Islip Terrace
North Bay Shore
North Great River
Oakdale
West Bay Shore
West Islip

HUNTINGTON DISTRICT
Asharoken
Centerport
Cold Spring Harbor
Commack
Crab Meadow
East Huntington
East Neck
East Northport
Eatons Neck
Fort Salonga
Halesite
Huntington
Huntington Bay
Huntington Station
Lloyd Harbor
Northport

EAST HAMPTON DISTRICT
Amagansett
East Hampton
Freetown
Montauk
North Sea
Sag Harbor
Southampton

PATCHOGUE DISTRICT
Bayport
Bellport
Blue Point
Bohemia
Brookhaven
Coram
East Holbrook
East Patchogue
Farmingville
Gordon Heights
Holbrook
Holtsville
Lakeland
Lake Ronkonkoma
Mastic
Mastic Beach
Medford
North Bellport
North Patchogue
Patchogue
Ronkonkoma
Sayville
Selden
Shirley
South Centereach
South Holbrook
South Yaphank
West Bellport
West Ronkonkoma
West Sayville
Yaphank

PORT JEFFERSON DISTRICT
Belle Terre
Centereach
Coram
East Setauket
Lake Grove
Middle Island
Miller Place
Mount Sinai
North Centereach
North Selden
Poquott
Port Jefferson
Port Jefferson Station
Ridge
Rocky Point
Setauket
South Setauket
Sound Beach
South Stony Brook
Stony Brook*
Strongs Neck
Terryville

SMITHTOWN DISTRICT
East Commack
Flowerfield*
Hauppauge
Kings Park
Nesconset
Saint James*
San Remo*
Smithtown
South Hauppauge
West St. James
West Smithtown*
Village of Head of The Harbor
Village of The Branch

WESTHAMPTON DISTRICT
Center Moriches
East Moriches
Eastport
East Quogue
Moriches
South Manor
Quiogue
Quogue
Westhampton
Westhampton Beach

* Included in Wholesale Water District

SUFFOLK COUNTY WATER AUTHORITY

Oakdale, New York

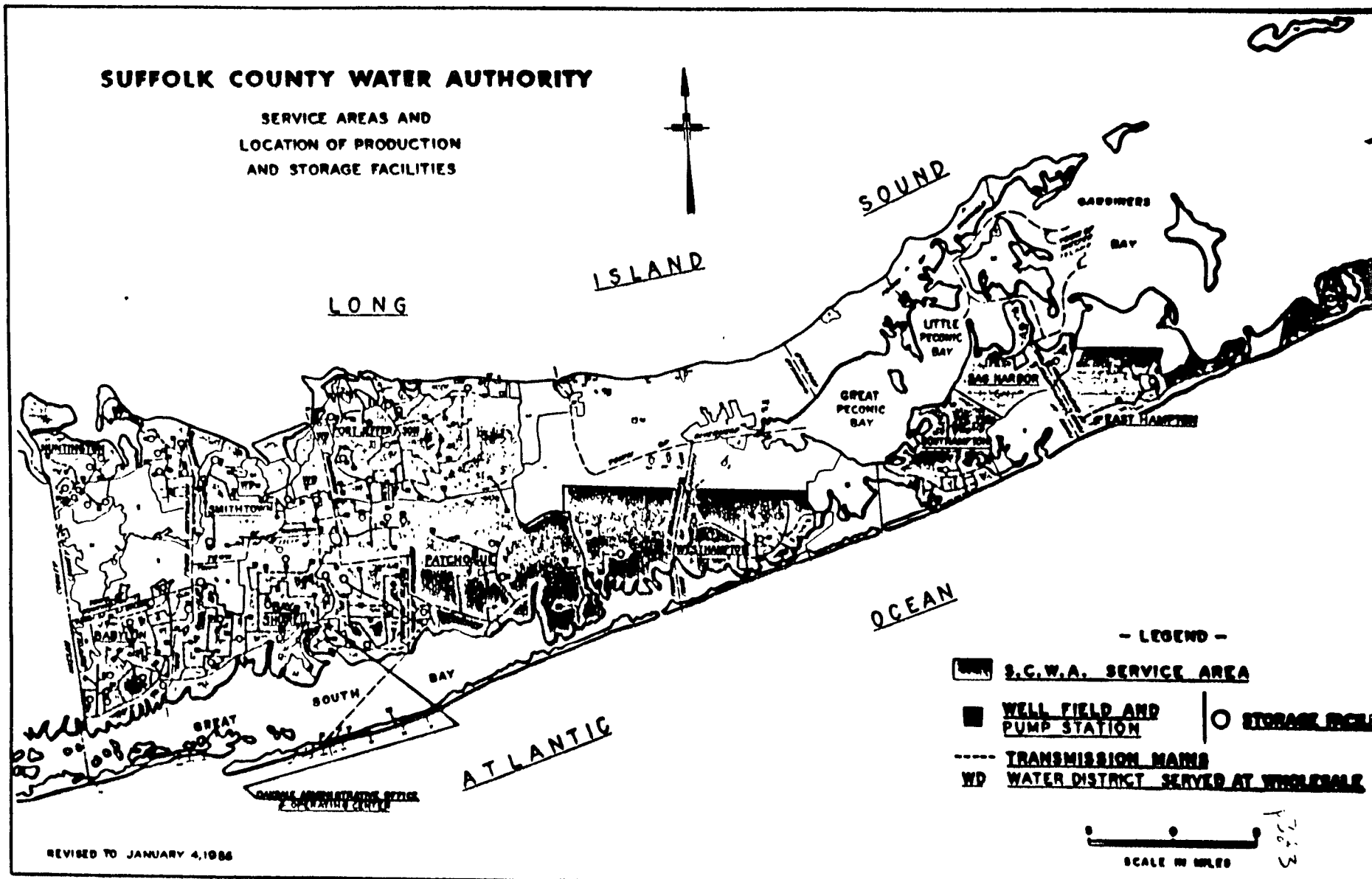
ACTIVE SERVICES

December 1985

DISTRICT OFFICES	1983	1984	1985	Increase or Decrease 1985/84
BABYLON	53 647	53 995	54 655	660
BAY SHORE	46 846	47 269	47 830	561
PATCHOGUE	49 408	51 412	55 104*	3692
HUNTINGTON	28 303	28 530	28 794	264
PORT JEFFERSON	32 881	33 524	34 440	916
SMITHTOWN	22 832	23 257	23 641	384
WESTHAMPTON	4 089	4 451	4 984	533
EAST HAMPTON	10 245	10 523	10 841	318
TOTAL FOR AUTHORITY	248 251	252 961	260 289	7328

*Includes 970 Active Services Acquired from Shirley Water Works Co. 3/29/85

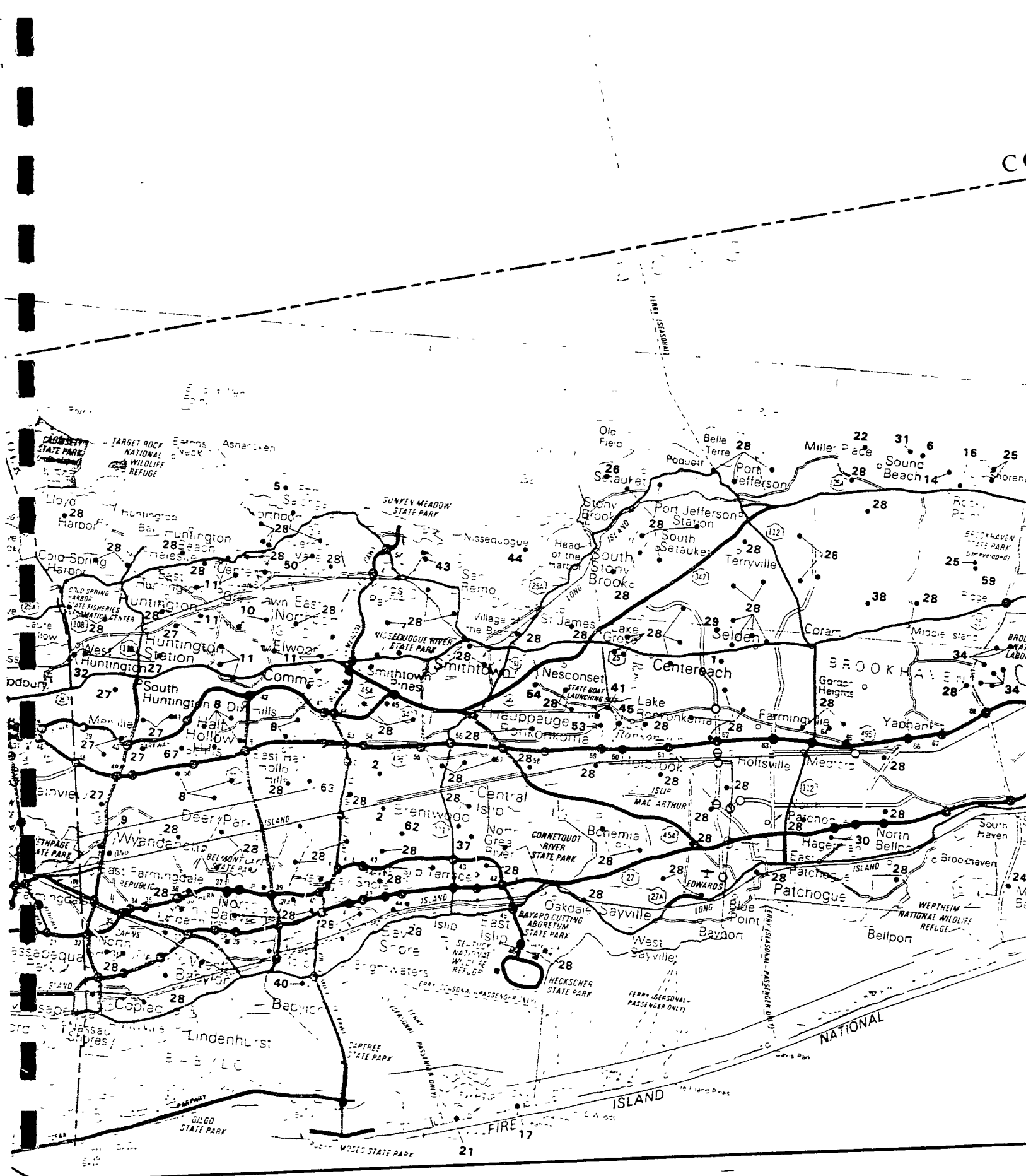
cc: Messrs. Hazlitt, Hanrahan, Sidoti, Schickler, Koehler, Dugan, Daly and Cannon
jh - 2/4/86


SUFFOLK COUNTY WATER AUTHORITY
SERVICE AREAS AND
LOCATION OF PRODUCTION
AND STORAGE FACILITIES
LONG
ISLAND
SOUND
OCEAN
ATLANTIC
GREAT PECONIC BAY
LITTLE PECONIC BAY
BAY
SOUTH
GREAT
SMITHTOWN
PATCHOGUE
BABYLON
EAST HAMPTON
- LEGEND -
S.C.W.A. SERVICE AREA
WELL FIELD AND PUMP STATION
TRANSMISSION MAINS
WD WATER DISTRICT SERVED AT WHOLESALE
REVISED TO JANUARY 4,1986
SCALE IN MILES

New York State Atlas of Community Water System Sources 1982

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

Appendix 1.5.1-10


SCALE 1 250,000
5 0 5 MILES
NATIONAL
ISLAND
FIRE

SUFFOLK COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
1	Bevon Water Corporation	1150	Wells
2	Brentwood Water District	25812	Wells
3	Bridgehampton Water Company	1916	Wells
4	Captain Kidd Water Company	580	Wells
5	Crab Meadow Beach	50	Wells
6	Culross Corporation (Culross Beach)	104	Wells
7	Dering Harbor Village	130	Wells
8	Dix Hills Water District	30000	Wells
9	East Farmingdale Water District	7850	Wells
10	Fishers Island Water Works Corporation	250	Barlow, Middle Farms and Treasure Pc
11	Greenlawn Water District	40000	Wells
12	Greenport Village	6851	Wells
13	Hampton Bays Water District	9500	Wells
14	Hawthorne - Maple Civic Association	50	Wells
15	Herod Point Association	80	Wells
16	North Shores Water Company	5000	Wells
17	Ocean Beach Village	155	Wells
18	Reeves Beach Water Company	650	Wells
19	Riverhead Water District	9300	Wells
20	Roanoke Water Corporation	201	Wells
21	Saltaire Village	35	Wells
22	Scott's Beach Water Company	342	Wells
23	Shelter Island Heights Association	498	Wells
24	Shirley Water Works	3400	Wells
25	Shorewood Water Corporation	10000	Wells
26	Soundview Association	236	Wells
27	South Huntington Water District	51260	Wells
28	Suffolk County Water Authority	900000	Wells
29	Sunhill Water Corporation	3959	Wells
30	Swan Lake Water Corporation	1485	Wells
31	Terrace-on-the-Sound	400	Wells
32	Woodbury Triangle Corporation	800	Wells
Non-Municipal Community			
33	Aquebogue Mobile Home Court	120	Wells
34	Brookhaven National Labs	3373	Wells
35	Calverton Hills Owners Association	897	Wells
36	Cedar Lodge Nursing Home	100	Wells
37	Central Islip Psychiatric Center	4525	Wells
38	Crest Hall Health Related Facility	120	Wells
39	East Quogue Mobile Estates	160	Wells
40	Good Samaritan Hospital	NA	Wells
41	Greis Mobile Park	70	Wells
42	Hampton Gateway Apartments	304	Wells
43	Kings Park Psychiatric Center	3100	Wells
44	Knox School	NA	Wells
45	Lake Hurst Lodge Adult Home	57	Wells
46	Leier's Mobile Park	350	Wells
47	Little Flower Children's Services	150	Wells
48	Montauk Air Force Station	10	Wells
49	Napeague Trailer Park	78	Wells
50	Northport VA Hospital	3000	Wells
51	Oak Park Trailer Park	50	Wells
52	Oakland Ridge Mobile Park	74	Wells
53	Park Lake Rest Home	46	Wells
54	Peacock Alley	35	Wells
55	Peconic River Trailer Park	90	Wells
56	Peconic View Adult Mobile Home Park	70	Wells
57	Pinecrest Garden Apartments	392	Wells
58	Ramblewood Mobile Homes	210	Wells
59	Ridge Rest Home	58	Wells
60	Rocky Point Family Housing	55	Wells
61	Rollin Mobile Homes	220	Wells
62	St Joseph Convent - Long Island University	1177	Wells
63	Sam A Lewison Start Center	40	Wells
64	South Bay Adult Home	40	Wells
65	Southampton College	1000	Wells
66	Speonk Mobile Home Park	50	Wells
67	Suffolk Developmental Center	3500	Wells
68	Three Mile Harbor Trailer Park	40	Wells
69	Thurm's Mobile Estates	450	Wells
70	USCG Station - Moriches	23	Wells
71	Wes Dubicki Apartments	NA	Wells

Preliminary Assessment Review Form

Site Name: Commercial Envelope MFG Co
Aliases:
Address: 900 Grand Boulevard
City: Deer Park
County: Suffolk
State: NY
Priority Rating Given: NON e
(By State or Contractor)

Agree:
Disagree:
(Check One)

If Disagree, Why?

Other Comments: Site STATUS: Active
Site Description: This envelope manufacturing company generated hazardous chemicals including solvents, ink and glue. Potential ground-water contamination problem resulting from several years of printing ink and photo waste containing mixed heavy metals and solvent wastes

Recommendation:
Final (By EPA) Medium Priority

Reviewer:
Date: 1-26-88

NYD 981184138

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Commercial Envelope Mfg. Co., Inc.	900 Grand Boulevard				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Deer Park	NY	11729	Suffolk		
09 COORDINATES LATITUDE	**LONGITUDE**				
40° 45' 45"	73° 18' 13"				

10 DIRECTIONS TO SITE (Starting from nearest public road)

Corner of Jefryn Boulevard and (900) Grand Boulevard, in Deer Park (Town of Babylon) New York.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
Commercial Envelope Mfg. Company, Inc.	900 Grand Boulevard			
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**	
Deer Park	NY	11729	(516) 242-2500	
07 OPERATOR (If known and different from owner)	**08 STREET** (Business, mailing, residential)			
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**	
			( )	

13 TYPE OF OWNERSHIP (Check one)

☒ A PRIVATE ☐ B FEDERAL _____ (Agency name) ☐ C STATE ☐ D COUNTY ☐ E MUNICIPAL

☐ F. OTHER _____ (Specify) ☐ G UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A RCRA 3001 DATE RECEIVED ___/___/___ (MONTH DAY YEAR) ☐ B UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED ___/___/___ (MONTH DAY YEAR) ☐ C NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES ☐ NO DATE 1 23 86 (MONTH DAY YEAR)

BY (Check all that apply)

☐ A EPA ☐ B EPA CONTRACTOR ☐ C STATE ☒ D OTHER CONTRACTOR

☐ E LOCAL HEALTH OFFICIAL ☐ F OTHER _____ (Specify)

CONTRACTOR NAME(S) EA Science and Technology

02 SITE STATUS (Check one)

☒ A ACTIVE ☐ B INACTIVE ☐ C UNKNOWN

03 YEARS OF OPERATION

1976 (BEGINNING YEAR) | present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Printing ink and photo wastes containing mixed heavy metal and solvent wastes discharged to leaching pools. Solvent and lead-contaminated wastes from a trash compactor flowed into a storm drain. Ink wastes were held within below grade tanks. Discharge to a discovered underground "cache" still active,*

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Potential ground-water contamination problem resulting from several years discharge of printing ink and photo waste containing mixed heavy metal and solvent wastes.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A HIGH (Inspection required promptly) ☑ B MEDIUM (Inspection required) ☐ C LOW (Inspect on time available basis) ☐ D NONE (No further action needed; complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER
Rebecca Ligotino	EA Science and Technology		(914) 692-6706
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER**	**08 DATE**
William Going		EA	(914) 692-6706	3 25 86 (MONTH DAY YEAR)

EPA FORM 2070 12 (7-81)

*source not yet identified.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	New

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER FINES
- ☐ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ☒ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ☒ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	Unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Methylene chloride	74-87-3	TK	180	ppb
SOL	1,1,2 Trichloroethane	79-00-5	TK	33	ppb
SOL	P-ethyltoluene		TK	210	ppb
SOL	Toluene	108-88-3	TK	970	ppb
SOL	Ethylbenzene	100-41-4	TK	52	ppb
SOL	Tetrachloroethylene	127-18-4	TK	11	ppb
SOL	Xylene	1330-20-7	TK	500	ppb
MES	Copper	7440-50-8	TK	0.08	mg/liter
MES	Iron	7439-89-6	TK	5.0	mg/liter
SOL	1,2,4 Trimethylbenzene	95-63-6	TK	430	ppb

V. FEEDSTOCKS (See Appendix for CAS Numbers) Unknown

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis, reports)

EA site inspection, 23 January 1986.
Suffolk County Department of Health Services file.

United States Environmental Protection Agency

Office of Emergency and Remedial Response
Washington DC 20460

EPA Form 2070 12
July 1981

Commercial Envelope Mfg. Co., Inc.

EPA

Potential Hazardous Waste Site

Preliminary Assessment

PA!
New Site Discovery

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(47-15-11 (10/83)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: _____ SITE CODE: 152103

NAME OF SITE: Commercial Envelope Mfg. Co., Inc. REGION: I

STREET ADDRESS: 900 Grand Boulevard

TOWN/CITY: Deer Park COUNTY: Suffolk

NAME OF CURRENT OWNER OF SITE: Town of Babylon Industrial Development Agency

ADDRESS OF CURRENT OWNER OF SITE: 200 E. Sunrise Highway, Lindenhurst, New York 11757

TYPE OF SITE: OPEN DUMP [X] STRUCTURE [X] LAGOON [ ]
LANDFILL [ ] TREATMENT POND [ ]

ESTIMATED SIZE: 1 ACRES

SITE DESCRIPTION:

The envelope manufacturing operation has been active from 1976 until the present and generates various hazardous substances including waste solvents, glues, and ink.

Three areas at the site have been associated with hazardous waste. Three leaching pools received printing ink and photo wastes containing mixed heavy metal and solvent wastes. Solvent and lead-contaminated wastes from a trash compactor flowed into a storm drain. Ink wastes were held in 3 below grade storage tanks.

HAZARDOUS WASTE DISPOSED: CONFIRMED [X] SUSPECTED [ ]

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Methylene Chloride	Unknown
Toluene, Xylene,	
Decane, 1,2,4 Trimethylbenzene	
Copper, Iron, Zinc	
Lead, Chromium	

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

_____, 19 ___ TO _____, 19 ___

OWNER(S) DURING PERIOD OF USE: Town of Babylon IDA

SITE OPERATOR DURING PERIOD OF USE: Commercial Envelope Mfg. Co., Inc.

ADDRESS OF SITE OPERATOR: Grand Boulevard, Deer Park, New York 11729

ANALYTICAL DATA AVAILABLE: AIR ☐ SURFACE WATER ☐ GROUNDWATER ☐
SOIL [x] SEDIMENT ☐ NONE ☐

CONTRAVENTION OF STANDARDS: GROUNDWATER ☐ DRINKING WATER ☐
SURFACE WATER ☐ AIR ☐

SOIL TYPE: Sand and gravel

DEPTH TO GROUNDWATER TABLE: 30 ft

LEGAL ACTION: TYPE: _____ STATE ☐ FEDERAL ☐
STATUS: IN PROGRESS ☐ COMPLETED [x]
REMEDIAL ACTION: PROPOSED ☐ UNDER DESIGN ☐
IN PROGRESS ☐ COMPLETED ☐

NATURE OF ACTION: _____

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Potential ground-water contamination resulting from several years discharge of printing ink and photo waste.

ASSESSMENT OF HEALTH PROBLEMS:

None known or documented.

PERSON(S) COMPLETING THIS FORM:

FOR NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME EA Science and Technology
TITLE _____
NAME _____
TITLE _____
DATE: 4 November 1986

NEW YORK STATE DEPARTMENT OF HEALTH

NAME _____
TITLE _____
NAME _____
TITLE _____
DATE: _____